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ABSTRACT

This document presents Appendixes C and D to the National Science Foundation (NSF) report on Federal Funds for Research, Development, and Other Scientific Activities, Volume XXVI. Data is based on a survey conducted during the second quarter of fiscal year 1977; data for 1976 are actual, while data for 1977 and 1978 are estimates. Data reports the expenditures for research and development by agency, performer and field of science for basic research, applied research, development, research at universities and colleges, foreign programs, and by geographic distribution. (SL)

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FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND OTHER SCIENTIFIC ACTIVITIES, FISCAL YEARS 1976, 1977, and 1978
VOLUME XXVI

Detailed Statistical Tables
Appendixes C and D

SURVEYS OF SCIENCE RESOURCES SERIES
NATIONAL SCIENCE FOUNDATION
WASHINGTON, D.C. 20550

NSF 77-317

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EXPLANATORY NOTE

These data are based on Federal agency responses to the National Science Foundation survey for *Federal Funds for Research, Development, and Other Scientific Activities*, Volume XXVI. In these tables data for 1976 are actual. Data for 1977 and 1978 are estimated and do not represent final actions. The timing of the *Federal Funds* survey coincided with the second quarter of fiscal year 1977, the period when the annual budget had just been forwarded to Congress. Thus, the 1978 data do not reflect subsequent congressional actions or changes made by Executive apportionment.

The report, *Federal Funds for Research, Development, and Other Scientific Activities*, Volume XXVI will be published at a later date. The report will analyze the R&D portion of the 1978 Federal budget, relating current levels to former levels and to recent budget totals, and comparing Federal R&D support with broader economic indicators. The report will describe and analyze R&D programs by agency, performer, character of work, and State distribution and will provide a number of summary tables and charts to aid in the analyses. Also included will be a section describing the activities of agencies in scientific and technical information and showing comparative funding levels. The report will not include detailed statistical tables *Appendixes C and D*.

Inquiries relating to *Federal Funds*, Volume XXVI should be directed to the National Science Foundation, Division of Science Resources Studies, Washington, D.C. 20550.

July 1977

APPENDIX C

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Part 1

Federal Funds for Research, Development and R&D Plant

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NOTES

- Estimates for 1978 are based on *The Budget of the United States Government, Fiscal Year 1978* as submitted to Congress, and do not reflect subsequent appropriations and apportionment actions.
- Details may not add to totals because of rounding.
- Asterisks appearing in lieu of figures indicate that the amounts are less than $50,000.
- The abbreviation "FFRDC's" appearing in statistical tables refers to federally funded research and development centers.
- Defense Agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Communications Agency, the Defense Mapping Agency, the Defense Logistics Agency, the Uniformed Services University of the Health Sciences, and technical support, Office of the Secretary of Defense.
- Departmentwide funds of the Department of Defense cover the Defense Civil Preparedness Agency.
- R&D data reported by the National Aeronautics and Space Administration are in terms of budget plan rather than obligations.
- In tables showing extramural performers, obligations to agricultural experiment stations are included within obligations to universities and colleges.
- The current appendix tables (Volume XXVI) providing data on R&D totals for 1971 through 1975 are not comparable with totals for those years in appendix tables issued to accompany earlier *Federal Funds* reports. Basic research and applied research totals for 1975 and development totals for 1971, 1973, and 1975 have also been changed. Performer totals for 1971 through 1975 are likewise not comparable with data in earlier appendix tables. In the appendix tables for the previous report (Volume XXV) data on basic research, applied research, and development had been changed so that they were no longer comparable with data reported under those categories in appendix tables for previous reports. Some of the historical data were missing (for the years 1968, 1970, 1972, and 1974). These data are now included in the current appendix tables (Volume XXVI) and are shown on the revised basis used in the previous-year appendix tables.

NOTE: For trend comparisons, use only these appendix tables C and D for Volume XXVI and not any earlier ones.

Table C-1. Summary of Federal funds for research, development, and R&D plant: fiscal years 1976, 1977, and 1978

[Millions of dollars]

Item	Actual 1976	Estimates 1977	Estimates 1978
Total outlays for research, development, and R&D plant	20,687.9	23,244.0	25,850.5
Research and development	19,892.9	22,278.2	24,623.6
R&D plant	795.1	965.7	1,226.9
Total obligations for research, development, and R&D plant	21,595.3	26,068.8	27,883.1
Research and development	20,758.6	24,465.3	26,316.7
Performers:			
Federal intramural[1]	5,710.0	6,467.0	6,547.6
Industrial firms	9,414.6	11,402.2	12,918.9
FFRDC's administered by industrial firms	848.9	1,061.5	1,150.0
Universities and colleges	2,525.9	2,851.1	3,060.1
FFRDC's administered by universities and colleges	1,061.1	1,194.6	1,217.0
Nonprofit institutions	692.5	768.7	771.7
FFRDC's administered by nonprofit institutions	231.0	252.6	220.5
State and local governments	201.5	365.3	353.3
Foreign	73.1	102.2	77.5
Research	7,873.3	8,853.3	9,490.5
Performers:			
Federal intramural[1]	2,868.1	3,161.8	3,297.9
Industrial firms	1,364.2	1,555.3	1,803.0
FFRDC's administered by industrial firms	182.7	222.6	257.2
Universities and colleges	2,267.6	2,545.1	2,719.5
FFRDC's administered by universities and colleges	549.1	631.7	659.8
Nonprofit institutions	442.5	499.6	522.1
FFRDC's administered by nonprofit institutions	57.7	49.5	54.2
State and local governments	92.7	123.3	125.0
Foreign	48.7	64.4	51.9
Fields of science:			
Life sciences	2,646.1	2,983.4	3,105.5
Psychology	140.3	164.1	178.0
Physical sciences	1,220.6	1,405.6	1,569.9
Environmental sciences	770.3	852.3	925.0
Mathematics and computer sciences	152.9	165.6	183.8
Engineering	2,378.0	2,601.6	2,810.8
Social sciences	390.0	456.5	482.2
Other sciences	175.2	224.1	235.3
Basic research	2,425.5	2,754.7	3,011.8
Performers:			
Federal intramural[1]	719.1	790.9	851.4
Industrial firms	108.3	151.7	197.2
FFRDC's administered by industrial firms	43.3	49.4	52.9
Universities and colleges	1,137.1	1,290.2	1,398.9
FFRDC's administered by universities and colleges	284.3	315.1	347.3
Nonprofit institutions	101.0	117.6	122.3
FFRDC's administered by nonprofit institutions	7.4	7.2	8.7
State and local governments	10.2	14.4	16.0
Foreign	14.8	18.2	17.1
Fields of science:			
Life sciences	877.7	1,007.1	1,058.3
Psychology	43.7	52.6	57.5
Physical sciences	721.6	806.3	910.7
Environmental sciences	354.6	393.6	438.1
Mathematics and computer sciences	70.2	79.4	87.8
Engineering	240.0	267.8	297.1
Social sciences	85.2	102.0	113.4
Other sciences	32.6	46.0	49.0

Applied research	5,447.8	6,098.6	6,478.6
Performers:			
Federal intramural[1]	2,149.1	2,370.9	2,446.5
Industrial firms	1,255.9	1,403.6	1,605.8
FFRDC's administered by industrial firms	139.4	173.2	204.2
Universities and colleges	1,130.5	1,254.9	1,320.5
FFRDC's administered by universities and colleges	264.8	316.6	312.5
Nonprofit institutions	341.5	382.0	399.8
FFRDC's administered by nonprofit institutions	50.3	42.3	45.5
State and local governments	82.4	108.9	109.0
Foreign	33.9	46.2	34.8
Fields of science:			
Life sciences	1,768.4	1,976.3	2,047.2
Psychology	96.7	111.5	120.5
Physical sciences	499.0	599.3	659.2
Environmental sciences	415.7	458.7	486.9
Mathematics and computer sciences	82.7	86.2	96.1
Engineering	2,138.0	2,333.8	2,513.7
Social sciences	304.7	354.6	368.8
Other sciences	142.6	178.2	186.3
Development	12,885.3	15,612.0	16,826.2
Performers:			
Federal intramural[1]	2,841.8	3,305.2	3,249.8
Industrial firms	8,050.4	9,847.0	11,115.9
FFRDC's administered by industrial firms	666.2	838.8	892.8
Universities and colleges	258.3	306.1	340.7
FFRDC's administered by universities and colleges	512.0	563.0	557.1
Nonprofit institutions	250.0	269.1	249.6
FFRDC's administered by nonprofit institutions	173.3	203.2	166.3
State and local governments	108.8	242.0	228.3
Foreign	24.4	37.7	25.7
R&D plant	836.7	1,603.5	1,566.5
Performers supported:			
Federal intramural	316.8	777.3	603.4
Industrial firms	73.7	215.9	270.3
FFRDC's administered by industrial firms	205.9	220.8	268.1
Universities and colleges	35.2	49.7	49.8
FFRDC's administered by universities and colleges	189.6	324.1	362.4
Nonprofit institutions	10.9	8.9	6.0
FFRDC's administered by nonprofit institutions	4.7	6.4	5.8
State and local governments	—	.3	.7
Foreign	—	—	—

[1] Costs associated with the administration of intramural and extramural programs are covered as well as actual intramural performance.

SOURCE: National Science Foundation

TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	ACTUAL,	ESTIMATES		ACTUAL,	ESTIMATES	
	1976	1977	1978	1976	1977	1978
TOTAL, ALL AGENCIES	21,595.3	26,068.8	27,883.1	20,687.9	23,244.0	25,850.5
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	478.6	547.9	588.4	468.8	570.7	592.2
AGRICULTURAL RESEARCH SERVICE	255.3	296.9	323.3	247.4	325.4	323.1
COOPERATIVE STATE RESEARCH SERVICE	113.4	128.7	136.4	104.2	131.6	139.4
ECONOMIC RESEARCH SERVICE	24.0	26.2	28.3	23.6	26.2	28.3
FARMER COOPERATIVE SERVICE	1.2	1.3	1.6	1.4	1.3	1.6
FOREST SERVICE	82.8	92.7	96.7	90.3	84.1	97.7
NATIONAL AGRICULTURAL LIBRARY	*	-	.	*	*	-
STATISTICAL REPORTING SERVICE	1.9	2.1	2.1	2.0	2.1	2.1
DEPARTMENT OF COMMERCE, TOTAL	235.5	254.8	245.2	233.3	249.9	257.0
BUREAU OF THE CENSUS	2.5	2.7	2.8	2.5	2.7	2.8
ECONOMIC DEVELOPMENT ADMINISTRATION	15.1	14.6	4.5	13.6	13.1	12.5
MARITIME ADMINISTRATION	21.2	23.0	20.5	24.4	20.6	24.3
NATIONAL BUREAU OF STANDARDS	47.9	54.7	51.9	49.1	54.9	52.0
NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION	6.4	7.0	6.7	4.6	6.6	7.9
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	139.1	149.4	155.8	134.5	148.1	154.4
OFFICE OF MINORITY BUSINESS ENTERPRISE	2.0	2.0	1.6	3.2	1.8	1.6
OFFICE OF TELECOMMUNICATIONS	.9	1.0	1.0	1.1	1.7	1.0
PATENT AND TRADEMARK OFFICE	.4	.4	.4	.4	.4	.4
DEPARTMENT OF DEFENSE, TOTAL	9,798.1	11,639.9	12,456.7	9,092.7	10,094.0	11,291.9
DEPARTMENT OF THE ARMY	2,026.0	2,526.5	2,713.8	1,969.6	2,341.7	2,536.2
MILITARY FUNCTIONS	1,997.4	2,500.7	2,683.7	1,941.2	2,316.1	2,506.1
RDT&E APPROPRIATIONS	1,906.1	2,388.5	2,553.2	1,841.6	2,213.0	2,410.2
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D	86.9	92.5	92.3	86.9	92.5	92.3
MILITARY CONSTRUCTION	4.4	19.7	38.2	12.7	10.6	3.6
CIVIL FUNCTIONS	28.6	25.8	30.1	28.4	25.6	30.1
DEPARTMENT OF THE NAVY	3,373.8	3,929.9	4,359.3	3,320.1	3,673.5	4,096.3
RDT&E APPROPRIATIONS	3,279.0	3,816.9	4,216.3	3,214.9	3,566.0	3,985.7
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D	81.1	91.1	84.2	81.1	91.1	84.2
MILITARY CONSTRUCTION	10.8	18.3	55.6	19.3	13.4	23.4
SPECIAL FOREIGN CURRENCY PROGRAM	2.9	3.6	3.2	4.8	3.0	3.0
DEPARTMENT OF THE AIR FORCE	3,799.6	4,457.9	4,585.1	3,625.2	3,887.3	4,454.8
RDT&E APPROPRIATIONS	3,516.5	3,889.4	4,211.4	3,338.0	3,579.0	4,027.9
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D	245.1	251.7	241.9	245.1	251.7	241.9
MILITARY CONSTRUCTION	38.0	316.8	131.8	42.1	56.6	185.0
DEFENSE AGENCIES	573.9	687.1	771.7	154.7	162.4	175.4
RDT&E APPROPRIATIONS	573.9	687.1	771.7	154.7	162.4	175.4
DEPARTMENTWIDE FUNDS	.7	.9	1.7	2.2	1.1	1.2
DIRECTOR OF TEST AND EVALUATION, DEFENSE	24.1	37.6	25.1	20.9	28.0	28.0
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	2,579.0	3,102.8	3,092.7	2,615.0	2,626.3	2,996.8
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	139.5	155.0	155.5	145.1	140.6	151.6
CENTER FOR DISEASE CONTROL	49.6	60.4	59.5	37.1	77.9	62.5
FOOD AND DRUG ADMINISTRATION	38.0	44.7	47.4	19.0	38.1	43.0
HEALTH RESOURCES ADMINISTRATION	38.2	37.0	33.7	24.7	36.3	30.2
HEALTH SERVICES ADMINISTRATION	17.5	21.4	14.9	11.3	15.9	17.3
NATIONAL INSTITUTE OF EDUCATION	63.7	85.7	104.0	69.8	88.4	93.9
NATIONAL INSTITUTES OF HEALTH	2,054.8	2,375.3	2,378.3	2,118.4	1,998.5	2,312.7
OFFICE OF EDUCATION	58.2	174.7	150.0	56.8	76.7	132.8
OFFICE OF HUMAN DEVELOPMENT	61.9	78.1	72.1	61.4	83.2	77.2
OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION	1.0	1.0	1.0	1.5	1.7	1.6
OFFICE OF THE SECRETARY	23.7	20.0	22.4	32.5	22.0	22.5
SOCIAL AND REHABILITATION SERVICE	18.6	29.3	31.2	18.6	29.3	31.2
SOCIAL SECURITY ADMINISTRATION	14.4	20.1	22.8	18.9	17.8	20.2
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	67.6	62.7	67.7	60.3	66.3	70.8
DEPARTMENT OF THE INTERIOR, TOTAL	320.2	357.7	361.6	304.0	350.4	367.1
BONNEVILLE POWER ADMINISTRATION	7.1	5.8	3.4	8.3	6.6	3.8
BUREAU OF LAND MANAGEMENT	.7	.9	1.4	.7	.9	1.4
BUREAU OF MINES	131.3	153.7	135.9	113.7	147.1	141.8
BUREAU OF OUTDOOR RECREATION	*	*	*	*	*	*
BUREAU OF RECLAMATION	8.3	10.3	9.0	8.7	11.4	9.0
GEOLOGICAL SURVEY	119.2	130.8	152.6	125.0	130.0	151.9
NATIONAL PARK SERVICE	9.3	9.9	11.8	9.3	9.9	11.8
OFFICE OF THE SECRETARY	1.0	4.9	2.4	.7	3.6	2.2
OFFICE OF WATER RESEARCH AND TECHNOLOGY	19.0	19.5	21.1	19.0	19.5	21.1
UNITED STATES FISH AND WILDLIFE SERVICE	24.2	21.7	23.9	18.5	21.3	24.0

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TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(MILLIONS OF DOLLARS)

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AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	ACTUAL,	ESTIMATES		ACTUAL,	ESTIMATES	
	1976	1977	1978	1976	1977	1978
DEPARTMENT OF JUSTICE, TOTAL	33.9	45.0	39.0	39.9	44.1	40.4
BUREAU OF PRISONS	.8	1.3	2.0	.7	1.2	1.6
DRUG ENFORCEMENT ADMINISTRATION	2.5	6.5	3.3	2.6	4.6	4.8
FEDERAL BUREAU OF INVESTIGATION	1.2	1.4	1.8	1.4	2.6	2.0
IMMIGRATION AND NATURALIZATION SERVICE	.1	.8	.4	-	.8	.4
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	29.2	35.0	29.5	35.2	35.0	29.5
OFFICE OF THE ATTORNEY GENERAL	-	-	2.0	-	-	2.0
DEPARTMENT OF LABOR, TOTAL	28.5	34.6	33.2	27.8	34.6	33.2
BUREAU OF LABOR STATISTICS	1.3	1.4	1.2	1.3	1.4	1.2
EMPLOYMENT AND TRAINING ADMINISTRATION	17.5	19.1	17.3	17.5	19.1	17.3
EMPLOYMENT STANDARDS ADMINISTRATION	4.3	5.5	5.6	4.1	5.5	5.6
LABOR-MANAGEMENT SERVICES ADMINISTRATION	.7	2.9	3.0	.7	2.9	3.0
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	2.9	3.3	4.3	2.9	3.3	4.3
OFFICE OF THE SECRETARY	1.8	2.3	1.9	1.2	2.3	1.9
DEPARTMENT OF STATE, TOTAL	44.5	51.4	84.3	27.0	48.4	63.4
DEPARTMENTAL FUNDS	1.6	1.6	2.3	1.6	1.6	2.3
AGENCY FOR INTERNATIONAL DEVELOPMENT	42.9	49.8	82.0	25.4	46.8	61.1
DEPARTMENT OF TRANSPORTATION, TOTAL	308.7	432.3	420.0	335.7	397.2	393.4
FEDERAL AVIATION ADMINISTRATION	100.1	120.5	129.2	114.6	114.9	127.6
FEDERAL HIGHWAY ADMINISTRATION	29.3	54.8	54.8	42.9	48.9	54.7
FEDERAL RAILROAD ADMINISTRATION	60.5	80.9	57.0	48.5	64.4	46.3
MATERIALS TRANSPORTATION BUREAU	-	-	1.0	-	-	.6
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	31.4	58.9	51.3	33.8	58.0	47.9
OFFICE OF THE SECRETARY	25.8	33.1	31.2	29.9	31.0	31.2
UNITED STATES COAST GUARD	12.8	22.9	22.7	17.8	22.0	21.0
URBAN MASS TRANSPORTATION ADMINISTRATION	48.8	61.2	72.8	48.2	58.0	64.1
DEPARTMENT OF THE TREASURY, TOTAL	3.8	5.4	6.9	3.8	6.0	6.8
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	-	1.3	2.3	-	1.3	2.3
BUREAU OF ENGRAVING AND PRINTING	2.8	2.8	2.9	2.8	2.8	2.9
CUSTOMS SERVICE	1.1	1.3	1.7	1.1	1.9	1.6
OTHER AGENCIES						
ACTION	.1	.3	.3	.1	.3	.3
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1.0	1.2	1.4	1.0	1.2	1.4
APPALACHIAN REGIONAL COMMISSION	.7	.8	.8	.7	.8	.8
CIVIL AERONAUTICS BOARD	.4	.5	.5	.4	.5	.5
CIVIL SERVICE COMMISSION	4.0	3.8	3.8	4.0	3.8	3.8
COMMUNITY SERVICES ADMINISTRATION	10.2	19.0	9.8	10.0	19.0	8.5
CONSUMER PRODUCT SAFETY COMMISSION	5.8	7.7	6.7	3.8	5.1	4.7
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	2,937.7	4,344.3	4,988.7	2,588.8	3,637.9	4,396.4
ENVIRONMENTAL PROTECTION AGENCY	265.4	366.5	311.6	265.6	349.0	312.9
FEDERAL COMMUNICATIONS COMMISSION	1.5	2.1	2.1	1.1	2.2	2.0
FEDERAL ENERGY ADMINISTRATION	3.0	6.1	-	3.3	5.6	-
FEDERAL HOME LOAN BANK BOARD	.8	1.0	1.0	.8	1.0	1.0
FEDERAL TRADE COMMISSION	.9	1.1	1.2	.9	1.1	1.2
GENERAL SERVICES ADMINISTRATION	1.1	1.4	2.3	1.2	1.6	2.3
INTERSTATE COMMERCE COMMISSION	.1	.6	.4	.1	.6	.4
LIBRARY OF CONGRESS	3.0	3.1	3.4	2.9	3.2	3.3
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,529.0	3,727.9	4,009.5	3,669.0	3,732.8	3,914.8
NATIONAL SCIENCE FOUNDATION	661.8	722.5	803.0	669.1	681.4	763.7
NUCLEAR REGULATORY COMMISSION	98.1	122.0	148.4	76.9	106.2	128.5
OFFICE OF TELECOMMUNICATIONS POLICY	4.6	3.5	3.9	4.7	3.5	3.9
SMALL BUSINESS ADMINISTRATION	.1	1.0	1.1	.1	1.0	1.1
SMITHSONIAN INSTITUTION	26.2	31.1	32.7	27.6	31.0	31.7
TENNESSEE VALLEY AUTHORITY	28.9	44.3	31.6	34.4	44.8	31.6
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1.4	2.4	2.6	1.8	2.3	2.1
UNITED STATES INFORMATION AGENCY	.1	.1	.1	.1	.1	.1
UNITED STATES INTERNATIONAL TRADE COMMISSION	1.5	2.8	2.8	1.5	2.8	2.8
VETERANS ADMINISTRATION	109.5	117.2	117.7	109.5	117.2	117.7

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	ACTUAL,	ESTIMATES		ACTUAL,	ESTIMATES	
	1976	1977	1978	1976	1977	1978
TOTAL, ALL AGENCIES	20,758.6	24,465.3	26,316.7	19,892.9	22,278.2	24,623.6
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	462.4	525.3	573.8	460.0	535.4	569.5
AGRICULTURAL RESEARCH SERVICE	242.1	276.0	309.1	242.0	293.6	301.4
COOPERATIVE STATE RESEARCH SERVICE	113.4	128.7	136.4	104.2	131.5	139.4
ECONOMIC RESEARCH SERVICE	24.0	26.2	28.3	23.6	26.2	28.3
FARMER COOPERATIVE SERVICE	1.2	1.3	1.6	1.4	1.3	1.6
FOREST SERVICE	79.9	90.9	96.4	86.9	80.6	96.7
NATIONAL AGRICULTURAL LIBRARY	*	-	-	*	*	-
STATISTICAL REPORTING SERVICE	1.9	2.1	2.1	2.0	2.1	2.1
DEPARTMENT OF COMMERCE, TOTAL	228.9	247.4	239.5	225.5	243.9	252.7
BUREAU OF THE CENSUS	2.5	2.7	2.8	2.5	2.7	2.8
ECONOMIC DEVELOPMENT ADMINISTRATION	15.1	14.6	4.5	13.6	13.1	12.5
MARITIME ADMINISTRATION	19.0	17.9	16.4	22.8	16.8	21.3
NATIONAL BUREAU OF STANDARDS	47.4	53.9	50.3	48.0	54.2	50.8
NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION	6.4	7.0	6.7	4.6	6.6	7.9
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	135.1	147.9	155.8	129.4	146.7	154.4
OFFICE OF MINORITY BUSINESS ENTERPRISE	2.0	2.0	1.6	3.2	1.8	1.6
OFFICE OF TELECOMMUNICATIONS	.9	1.0	1.0	1.1	1.7	1.0
PATENT AND TRADEMARK OFFICE	.4	.4	.4	.4	.4	.4
DEPARTMENT OF DEFENSE, TOTAL	9,654.7	11,171.8	12,108.1	8,954.1	9,931.8	10,983.6
DEPARTMENT OF THE ARMY	2,013.7	2,495.6	2,652.9	1,949.0	2,319.9	2,527.9
MILITARY FUNCTIONS	1,988.0	2,471.0	2,625.5	1,923.5	2,295.5	2,500.5
RDT&E APPROPRIATIONS	1,901.1	2,378.5	2,533.2	1,836.6	2,203.0	2,408.2
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D	86.9	92.5	92.3	86.9	92.5	92.3
CIVIL FUNCTIONS	25.7	24.6	27.4	25.4	24.4	27.4
DEPARTMENT OF THE NAVY	3,328.0	3,871.6	4,273.7	3,260.8	3,620.1	4,032.9
RDT&E APPROPRIATIONS	3,244.0	3,776.9	4,186.3	3,174.9	3,526.0	3,945.7
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D	81.1	91.1	84.2	81.1	91.1	84.2
SPECIAL FOREIGN CURRENCY PROGRAM	2.9	3.6	3.2	4.8	3.0	3.0
DEPARTMENT OF THE AIR FORCE	3,726.6	4,091.1	4,403.3	3,568.1	3,800.7	4,219.8
RDT&E APPROPRIATIONS	3,481.5	3,839.4	4,161.4	3,323.0	3,549.0	3,977.9
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D	245.1	251.7	241.9	245.1	251.7	241.9
DEFENSE AGENCIES	561.6	675.0	751.4	153.1	162.0	173.8
RDT&E APPROPRIATIONS	561.6	675.0	751.4	153.1	162.0	173.8
DEPARTMENTWIDE FUNDS	.7	.9	1.7	2.2	1.1	1.2
DIRECTOR OF TEST AND EVALUATION, DEFENSE	24.1	37.6	25.1	20.9	28.0	28.0
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	2,545.9	2,959.5	3,009.4	2,562.6	2,560.1	2,926.7
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	139.5	155.0	155.2	145.1	140.6	151.6
CENTER FOR DISEASE CONTROL	49.6	60.4	59.5	37.1	77.9	62.5
FOOD AND DRUG ADMINISTRATION	37.1	42.8	47.4	18.5	37.0	41.8
HEALTH RESOURCES ADMINISTRATION	38.2	37.0	33.7	24.7	36.3	30.2
HEALTH SERVICES ADMINISTRATION	17.5	21.4	14.9	11.3	15.9	17.3
NATIONAL INSTITUTE OF EDUCATION	63.7	85.7	104.0	69.8	88.4	93.9
NATIONAL INSTITUTES OF HEALTH	2,022.6	2,233.9	2,295.3	2,066.5	1,933.3	2,243.7
OFFICE OF EDUCATION	58.2	174.7	150.0	56.8	76.7	132.8
OFFICE OF HUMAN DEVELOPMENT	61.9	78.1	72.1	61.4	83.2	77.2
OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION	1.0	1.0	1.0	1.5	1.7	1.6
OFFICE OF THE SECRETARY	23.7	20.0	22.4	32.5	22.0	22.5
SOCIAL AND REHABILITATION SERVICE	18.6	29.3	31.2	18.6	29.3	31.2
SOCIAL SECURITY ADMINISTRATION	14.4	20.1	22.8	18.9	17.8	20.2
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	67.6	62.7	67.7	60.3	66.3	70.8
DEPARTMENT OF THE INTERIOR, TOTAL	314.2	348.4	361.5	303.2	342.2	365.3
BONNEVILLE POWER ADMINISTRATION	7.0	5.8	3.4	8.3	6.5	3.8
BUREAU OF LAND MANAGEMENT	.7	.9	1.4	.7	.9	1.4
BUREAU OF MINES	131.3	145.1	135.9	113.7	139.6	140.7
BUREAU OF OUTDOOR RECREATION	*	*	*	*	*	*
BUREAU OF RECLAMATION	8.3	10.3	9.0	8.7	11.4	9.0
GEOLOGICAL SURVEY	119.2	130.8	152.6	125.0	130.0	151.9
NATIONAL PARK SERVICE	9.3	9.9	11.8	9.3	9.9	11.8
OFFICE OF THE SECRETARY	1.0	4.9	2.4	.7	3.6	2.2
OFFICE OF WATER RESEARCH AND TECHNOLOGY	19.0	19.5	21.1	19.0	19.5	21.1
UNITED STATES FISH AND WILDLIFE SERVICE	18.4	21.1	23.9	17.8	20.7	23.4

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TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS ACTUAL, 1976	OBLIGATIONS ESTIMATES 1977	OBLIGATIONS ESTIMATES 1978	OUTLAYS ACTUAL, 1976	OUTLAYS ESTIMATES 1977	OUTLAYS ESTIMATES 1978
DEPARTMENT OF JUSTICE, TOTAL	33.9	45.0	39.0	39.9	44.1	40.4
BUREAU OF PRISONS	.8	1.3	2.0	.7	1.2	1.6
DRUG ENFORCEMENT ADMINISTRATION	2.5	6.5	3.3	2.6	4.6	4.8
FEDERAL BUREAU OF INVESTIGATION	1.2	1.4	1.8	1.4	2.6	2.0
IMMIGRATION AND NATURALIZATION SERVICE	.1	.8	.4	-	.8	.4
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	29.2	35.0	29.5	35.2	35.0	29.5
OFFICE OF THE ATTORNEY GENERAL	-	-	2.0	-	-	2.0
DEPARTMENT OF LABOR, TOTAL	28.5	34.6	33.2	27.8	34.6	33.2
BUREAU OF LABOR STATISTICS	1.3	1.4	1.2	1.3	1.4	1.2
EMPLOYMENT AND TRAINING ADMINISTRATION	17.5	19.1	17.3	17.5	19.1	17.3
EMPLOYMENT STANDARDS ADMINISTRATION	4.3	5.5	5.6	4.1	5.5	5.6
LABOR-MANAGEMENT SERVICES ADMINISTRATION	.7	2.9	3.0	.7	2.9	3.0
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	2.9	3.3	4.3	2.9	3.3	4.3
OFFICE OF THE SECRETARY	1.8	2.3	1.9	1.2	2.3	1.9
DEPARTMENT OF STATE, TOTAL	39.4	46.2	62.7	25.9	46.4	59.9
DEPARTMENTAL FUNDS	1.6	1.6	2.3	1.6	1.6	2.3
AGENCY FOR INTERNATIONAL DEVELOPMENT	37.8	44.6	60.3	24.3	44.8	57.6
DEPARTMENT OF TRANSPORTATION, TOTAL	294.5	407.4	398.4	323.6	377.0	374.7
FEDERAL AVIATION ADMINISTRATION	98.1	117.5	123.2	112.7	112.0	121.9
FEDERAL HIGHWAY ADMINISTRATION	28.9	54.4	54.4	42.5	48.5	54.3
FEDERAL RAILROAD ADMINISTRATION	50.4	61.7	44.2	40.5	49.7	36.1
MATERIALS TRANSPORTATION BUREAU	-	-	1.0	-	-	.6
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	31.4	58.9	51.3	33.8	58.0	47.9
OFFICE OF THE SECRETARY	25.8	33.1	31.2	29.9	31.0	31.2
UNITED STATES COAST GUARD	12.4	22.3	22.0	17.3	21.5	20.3
URBAN MASS TRANSPORTATION ADMINISTRATION	47.5	59.5	71.1	46.9	56.3	62.4
DEPARTMENT OF THE TREASURY, TOTAL	3.7	5.3	6.8	3.7	5.8	6.7
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	-	1.3	2.3	-	1.3	2.3
BUREAU OF ENGRAVING AND PRINTING	2.8	2.8	2.9	2.8	2.8	2.9
CUSTOMS SERVICE	1.0	1.2	1.6	1.0	1.7	1.4
OTHER AGENCIES						
ACTION	.1	.3	.3	.1	.3	.3
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1.0	1.2	1.4	1.0	1.2	1.4
APPALACHIAN REGIONAL COMMISSION	.7	.8	.8	.7	.8	.8
CIVIL AERONAUTICS BOARD	.4	.5	.5	.4	.5	.5
CIVIL SERVICE COMMISSION	4.0	3.8	3.8	4.0	3.8	3.8
COMMUNITY SERVICES ADMINISTRATION	10.2	19.0	9.8	10.0	19.0	8.5
CONSUMER PRODUCT SAFETY COMMISSION	5.6	7.2	6.1	3.6	4.7	4.1
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	2,498.9	3,609.8	4,143.0	2,224.6	3,167.9	3,797.5
ENVIRONMENTAL PROTECTION AGENCY	259.1	361.4	310.5	259.0	343.9	308.4
FEDERAL COMMUNICATIONS COMMISSION	1.5	2.1	2.1	1.1	2.2	2.0
FEDERAL ENERGY ADMINISTRATION	3.0	6.1	-	3.3	5.6	-
FEDERAL HOME LOAN BANK BOARD	.8	1.0	1.0	.8	1.0	1.0
FEDERAL TRADE COMMISSION	.9	1.1	1.2	.9	1.1	1.2
GENERAL SERVICES ADMINISTRATION	1.1	1.4	2.3	1.2	1.6	2.3
INTERSTATE COMMERCE COMMISSION	.1	.6	.4	.1	.6	.4
LIBRARY OF CONGRESS	3.0	3.1	3.4	2.9	3.2	3.3
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,446.8	3,609.8	3,847.7	3,548.1	3,607.7	3,782.3
NATIONAL SCIENCE FOUNDATION	609.3	686.2	757.5	619.0	646.0	719.1
NUCLEAR REGULATORY COMMISSION	68.4	113.9	139.1	73.3	97.2	119.1
OFFICE OF TELECOMMUNICATIONS POLICY	4.6	3.5	3.9	4.7	3.5	3.9
SMALL BUSINESS ADMINISTRATION	.1	1.0	1.1	.1	1.0	1.1
SMITHSONIAN INSTITUTION	25.7	30.6	32.1	27.5	30.5	31.2
TENNESSEE VALLEY AUTHORITY	18.7	31.7	31.2	18.7	31.7	31.2
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1.4	2.4	2.6	1.8	2.3	2.1
UNITED STATES INFORMATION AGENCY	.1	.1	.1	.1	.1	.1
UNITED STATES INTERNATIONAL TRADE COMMISSION	1.5	2.8	2.8	1.5	2.8	2.8
VETERANS ADMINISTRATION	97.7	110.4	111.8	97.7	110.4	111.8

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	20,758,579	2,425,486	5,447,818	12,885,275
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	462,449	171,371	270,853	20,225
AGRICULTURAL RESEARCH SERVICE	242,111	101,686	125,898	14,527
COOPERATIVE STATE RESEARCH SERVICE	113,389	43,088	70,301	-
ECONOMIC RESEARCH SERVICE	23,962	3,594	20,368	-
FARMER COOPERATIVE SERVICE	1,205	-	1,205	-
FOREST SERVICE	79,901	22,572	51,931	5,398
NATIONAL AGRICULTURAL LIBRARY	8	-	8	-
STATISTICAL REPORTING SERVICE	1,873	431	1,142	300
DEPARTMENT OF COMMERCE, TOTAL	228,853	22,274	133,439	73,140
BUREAU OF THE CENSUS	2,494	182	1,955	357
ECONOMIC DEVELOPMENT ADMINISTRATION	15,071	1,675	388	13,008
MARITIME ADMINISTRATION	19,021	1,164	3,812	14,045
NATIONAL BUREAU OF STANDARDS	47,444	5,798	31,732	9,914
NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION	6,432	2,066	1,129	3,237
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	135,094	11,273	93,597	30,224
OFFICE OF MINORITY BUSINESS ENTERPRISE	2,027	-	405	1,622
OFFICE OF TELECOMMUNICATIONS	896	116	234	546
PATENT AND TRADEMARK OFFICE	374	-	187	187
DEPARTMENT OF DEFENSE, TOTAL	9,654,722	248,440	1,539,319	7,866,963
DEPARTMENT OF THE ARMY	2,013,653	39,040	267,385	1,707,228
DEPARTMENT OF THE NAVY	3,328,005	95,900	219,000	3,013,105
DEPARTMENT OF THE AIR FORCE	3,726,627	81,600	740,000	2,905,027
DEFENSE AGENCIES	561,647	31,900	312,234	217,513
DEPARTMENTWIDE FUNDS	700	-	700	-
DIRECTOR OF TEST AND EVALUATION, DEFENSE	24,090	-	-	24,090
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	2,545,926	652,417	1,510,521	382,988
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	139,455	52,557	84,060	2,838
CENTER FOR DISEASE CONTROL	49,596	-	49,596	-
FOOD AND DRUG ADMINISTRATION	37,077	-	37,077	-
HEALTH RESOURCES ADMINISTRATION	38,155	3,064	27,907	7,184
HEALTH SERVICES ADMINISTRATION	17,513	285	9,224	8,004
NATIONAL INSTITUTE OF EDUCATION	63,716	5,081	5,717	52,918
NATIONAL INSTITUTES OF HEALTH	2,022,610	586,557	1,193,340	242,713
OFFICE OF EDUCATION	58,209	-	21,428	36,781
OFFICE OF HUMAN DEVELOPMENT	61,874	-	34,624	27,250
OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION	1,037	-	1,037	-
OFFICE OF THE SECRETARY	23,704	4,873	18,831	-
SOCIAL AND REHABILITATION SERVICE	18,580	-	18,580	-
SOCIAL SECURITY ADMINISTRATION	14,400	-	9,100	5,300
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	67,575	-	36,945	30,630
DEPARTMENT OF THE INTERIOR, TOTAL	314,242	113,289	127,213	73,740
BONNEVILLE POWER ADMINISTRATION	7,010	-	462	6,548
BUREAU OF LAND MANAGEMENT	729	-	653	76
BUREAU OF MINES	131,300	800	72,500	58,000
BUREAU OF OUTDOOR RECREATION	20	-	20	-
BUREAU OF RECLAMATION	8,301	70	7,855	376
GEOLOGICAL SURVEY	119,154	98,492	20,662	-
NATIONAL PARK SERVICE	9,272	555	8,717	-
OFFICE OF THE SECRETARY	1,045	975	70	-
OFFICE OF WATER RESEARCH AND TECHNOLOGY	19,011	3,565	10,386	5,060
UNITED STATES FISH AND WILDLIFE SERVICE	18,400	8,832	5,888	3,680
DEPARTMENT OF JUSTICE, TOTAL	33,859	4,500	13,817	15,542
BUREAU OF PRISONS	761	-	-	761
DRUG ENFORCEMENT ADMINISTRATION	2,500	-	500	2,000
FEDERAL BUREAU OF INVESTIGATION	1,245	-	-	1,245
IMMIGRATION AND NATURALIZATION SERVICE	133	-	133	-
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	29,220	4,500	13,184	11,536
DEPARTMENT OF LABOR, TOTAL	28,533	958	17,042	10,533
BUREAU OF LABOR STATISTICS	1,308	-	776	532
EMPLOYMENT AND TRAINING ADMINISTRATION	17,545	632	6,912	10,001
EMPLOYMENT STANDARDS ADMINISTRATION	4,268	-	4,268	-
LABOR-MANAGEMENT SERVICES ADMINISTRATION	731	326	405	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	2,900	-	2,900	-
OFFICE OF THE SECRETARY	1,781	-	1,781	-
DEPARTMENT OF STATE, TOTAL	39,374	-	25,128	14,246
DEPARTMENTAL FUNDS	1,611	-	1,121	490
AGENCY FOR INTERNATIONAL DEVELOPMENT	37,763	-	24,007	13,756

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TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	294,500	-	31,100	263,400
FEDERAL AVIATION ADMINISTRATION	98,100	-	3,600	94,500
FEDERAL HIGHWAY ADMINISTRATION	28,900	-	1,900	27,000
FEDERAL RAILROAD ADMINISTRATION	50,400	-	8,600	41,800
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	31,400	-	9,900	21,500
OFFICE OF THE SECRETARY	25,800	-	3,900	21,900
UNITED STATES COAST GUARD	12,400	-	2,600	9,800
URBAN MASS TRANSPORTATION ADMINISTRATION	47,500	-	600	46,900
DEPARTMENT OF THE TREASURY, TOTAL	3,735	-	1,474	2,261
BUREAU OF ENGRAVING AND PRINTING	2,782	-	1,474	1,308
CUSTOMS SERVICE	953	-	-	953
OTHER AGENCIES				
ACTION	75	32	43	-
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,026	-	1,026	-
APPALACHIAN REGIONAL COMMISSION	719	-	719	-
CIVIL AERONAUTICS BOARD	445	-	445	-
CIVIL SERVICE COMMISSION	4,049	307	820	2,922
COMMUNITY SERVICES ADMINISTRATION	10,236	-	-	10,236
CONSUMER PRODUCT SAFETY COMMISSION	5,584	-	3,477	2,107
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	2,498,878	345,790	400,709	1,752,379
ENVIRONMENTAL PROTECTION AGENCY	259,138	13,700	141,695	103,743
FEDERAL COMMUNICATIONS COMMISSION	1,534	-	1,534	-
FEDERAL ENERGY ADMINISTRATION	2,997	-	1,048	1,949
FEDERAL HOME LOAN BANK BOARD	782	-	782	-
FEDERAL TRADE COMMISSION	850	300	550	-
GENERAL SERVICES ADMINISTRATION	1,092	63	296	733
INTERSTATE COMMERCE COMMISSION	123	-	123	-
LIBRARY OF CONGRESS	2,963	171	256	2,536
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,446,830	293,209	929,632	2,223,989
NATIONAL SCIENCE FOUNDATION	609,256	523,634	72,142	13,480
NUCLEAR REGULATORY COMMISSION	88,432	-	88,432	-
OFFICE OF TELECOMMUNICATIONS POLICY	4,581	396	1,500	2,685
SMALL BUSINESS ADMINISTRATION	52	-	52	-
SMITHSONIAN INSTITUTION	25,735	25,735	-	-
TENNESSEE VALLEY AUTHORITY	18,713	-	16,466	2,247
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1,440	-	1,394	46
UNITED STATES INFORMATION AGENCY	102	-	99	3
UNITED STATES INTERNATIONAL TRADE COMMISSION	1,500	-	1,500	-
VETERANS ADMINISTRATION	97,679	8,900	76,227	12,552

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	24,465,297	2,754,656	6,098,609	15,612,032
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	525,265	194,007	307,331	23,927
AGRICULTURAL RESEARCH SERVICE	275,978	115,911	143,508	16,559
COOPERATIVE STATE RESEARCH SERVICE	128,695	48,904	79,791	-
ECONOMIC RESEARCH SERVICE	26,200	3,930	22,270	-
FARMER COOPERATIVE SERVICE	1,335	-	1,335	-
FOREST SERVICE	90,927	24,787	59,102	7,038
STATISTICAL REPORTING SERVICE	2,130	475	1,325	330
DEPARTMENT OF COMMERCE, TOTAL	247,367	25,050	149,583	72,734
BUREAU OF THE CENSUS	2,656	200	2,092	364
ECONOMIC DEVELOPMENT ADMINISTRATION	14,566	1,675	391	12,500
MARITIME ADMINISTRATION	17,878	1,430	3,039	13,409
NATIONAL BUREAU OF STANDARDS	53,921	6,544	36,122	11,255
NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION	7,010	3,148	1,466	2,396
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	147,860	11,750	105,751	30,359
OFFICE OF MINORITY BUSINESS ENTERPRISE	1,997	200	200	1,597
OFFICE OF TELECOMMUNICATIONS	1,032	103	299	630
PATENT AND TRADEMARK OFFICE	447	-	223	224
DEPARTMENT OF DEFENSE, TOTAL	11,171,828	274,668	1,677,033	9,220,127
DEPARTMENT OF THE ARMY	2,495,631	40,125	335,185	2,120,321
DEPARTMENT OF THE NAVY	3,871,626	115,800	239,000	3,516,826
DEPARTMENT OF THE AIR FORCE	4,091,096	82,600	735,000	3,273,496
DEFENSE AGENCIES	674,971	36,143	366,948	271,880
DEPARTMENTWIDE FUNDS	900	-	900	-
DIRECTOR OF TEST AND EVALUATION, DEFENSE	37,604	-	-	37,604
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	2,959,472	747,114	1,682,940	529,418
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	154,970	60,147	91,967	2,856
CENTER FOR DISEASE CONTROL	60,440	-	60,440	-
FOOD AND DRUG ADMINISTRATION	42,828	-	42,828	-
HEALTH RESOURCES ADMINISTRATION	36,972	2,988	30,006	3,978
HEALTH SERVICES ADMINISTRATION	21,438	310	13,183	7,945
NATIONAL INSTITUTE OF EDUCATION	85,689	11,900	13,000	60,789
NATIONAL INSTITUTES OF HEALTH	2,233,895	670,169	1,295,659	268,067
OFFICE OF EDUCATION	174,687	-	27,900	146,787
OFFICE OF HUMAN DEVELOPMENT	78,091	-	49,595	28,496
OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION	1,037	-	1,037	-
OFFICE OF THE SECRETARY	20,000	1,600	18,400	-
SOCIAL AND REHABILITATION SERVICE	29,325	-	29,325	-
SOCIAL SECURITY ADMINISTRATION	20,100	-	9,600	10,500
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	62,704	-	34,100	28,604
DEPARTMENT OF THE INTERIOR, TOTAL	348,430	124,633	140,384	83,413
BONNEVILLE POWER ADMINISTRATION	5,765	-	220	5,545
BUREAU OF LAND MANAGEMENT	941	-	820	121
BUREAU OF MINES	145,078	800	78,900	65,378
BUREAU OF OUTDOOR RECREATION	20	-	20	-
BUREAU OF RECLAMATION	10,334	70	9,888	376
GEOLOGICAL SURVEY	130,842	106,435	24,407	-
NATIONAL PARK SERVICE	9,898	619	9,279	-
OFFICE OF THE SECRETARY	4,922	3,116	1,806	-
OFFICE OF WATER RESEARCH AND TECHNOLOGY	19,530	3,465	8,292	7,773
UNITED STATES FISH AND WILDLIFE SERVICE	21,100	10,128	6,752	4,220
DEPARTMENT OF JUSTICE, TOTAL	44,962	10,000	16,197	18,765
BUREAU OF PRISONS	1,311	-	297	1,014
DRUG ENFORCEMENT ADMINISTRATION	6,500	-	500	6,000
FEDERAL BUREAU OF INVESTIGATION	1,400	-	-	1,400
IMMIGRATION AND NATURALIZATION SERVICE	751	-	400	351
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	35,000	10,000	15,000	10,000
DEPARTMENT OF LABOR, TOTAL	34,557	785	20,849	12,923
BUREAU OF LABOR STATISTICS	1,372	-	896	476
EMPLOYMENT AND TRAINING ADMINISTRATION	19,149	670	6,032	12,447
EMPLOYMENT STANDARDS ADMINISTRATION	5,535	-	5,535	-
LABOR-MANAGEMENT SERVICES ADMINISTRATION	2,889	115	2,774	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	3,300	-	3,300	-
OFFICE OF THE SECRETARY	2,312	-	2,312	-
DEPARTMENT OF STATE, TOTAL	46,206	-	32,311	13,895
DEPARTMENTAL FUNDS	1,557	-	1,332	225
AGENCY FOR INTERNATIONAL DEVELOPMENT	44,649	-	30,979	13,670

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TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	407,400	-	46,000	361,400
FEDERAL AVIATION ADMINISTRATION	117,500	-	5,100	112,400
FEDERAL HIGHWAY ADMINISTRATION	54,400	-	2,000	52,400
FEDERAL RAILROAD ADMINISTRATION	61,700	-	8,800	52,900
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	58,900	-	21,000	37,900
OFFICE OF THE SECRETARY	33,100	-	5,000	28,100
UNITED STATES COAST GUARD	22,300	-	3,300	19,000
URBAN MASS TRANSPORTATION ADMINISTRATION	59,500	-	800	58,700
DEPARTMENT OF THE TREASURY, TOTAL	5,272	-	1,903	3,369
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	1,305	-	440	865
BUREAU OF ENGRAVING AND PRINTING	2,802	-	1,463	1,339
CUSTOMS SERVICE	1,165	-	-	1,165
OTHER AGENCIES				
ACTION	328	92	2	234
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,172	-	1,172	-
APPALACHIAN REGIONAL COMMISSION	800	-	800	-
CIVIL AERONAUTICS BOARD	496	-	496	-
CIVIL SERVICE COMMISSION	3,849	277	740	2,832
COMMUNITY SERVICES ADMINISTRATION	19,000	-	1,400	17,600
CONSUMER PRODUCT SAFETY COMMISSION	7,224	-	3,302	3,922
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	3,609,848	390,686	489,017	2,730,145
ENVIRONMENTAL PROTECTION AGENCY	361,440	21,200	193,400	146,840
FEDERAL COMMUNICATIONS COMMISSION	2,060	-	2,060	-
FEDERAL ENERGY ADMINISTRATION	6,075	-	-	6,075
FEDERAL HOME LOAN BANK BOARD	995	-	995	-
FEDERAL TRADE COMMISSION	1,110	355	755	-
GENERAL SERVICES ADMINISTRATION	1,430	65	96	1,269
INTERSTATE COMMERCE COMMISSION	618	-	618	-
LIBRARY OF CONGRESS	3,071	150	225	2,696
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,609,813	319,694	990,563	2,299,556
NATIONAL SCIENCE FOUNDATION	686,151	605,821	68,661	11,669
NUCLEAR REGULATORY COMMISSION	113,888	-	113,888	-
OFFICE OF TELECOMMUNICATIONS POLICY	3,535	190	2,109	1,236
SMALL BUSINESS ADMINISTRATION	1,027	-	1,027	-
SMITHSONIAN INSTITUTION	30,569	30,569	-	-
TENNESSEE VALLEY AUTHORITY	31,669	-	27,478	4,191
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	2,360	-	2,165	195
UNITED STATES INFORMATION AGENCY	141	-	134	7
UNITED STATES INTERNATIONAL TRADE COMMISSION	2,800	-	2,800	-
VETERANS ADMINISTRATION	110,365	9,300	86,075	14,990

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	26,316,651	3,011,826	6,478,637	16,826,188
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	573,796	213,013	334,857	25,926
AGRICULTURAL RESEARCH SERVICE	309,050	129,801	160,706	18,543
COOPERATIVE STATE RESEARCH SERVICE	136,361	51,817	84,544	-
ECONOMIC RESEARCH SERVICE	28,331	4,250	24,081	-
FARMER COOPERATIVE SERVICE	1,574	-	1,574	-
FOREST SERVICE	96,350	26,670	62,627	7,053
STATISTICAL REPORTING SERVICE	2,130	475	1,325	330
DEPARTMENT OF COMMERCE, TOTAL	239,465	24,427	150,449	64,589
BUREAU OF THE CENSUS	2,769	209	2,186	374
ECONOMIC DEVELOPMENT ADMINISTRATION	4,500	1,000	1,000	2,500
MARITIME ADMINISTRATION	16,381	1,310	2,785	12,286
NATIONAL BUREAU OF STANDARDS	50,281	6,384	34,286	9,611
NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION	6,664	3,165	1,499	2,000
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	155,750	12,256	107,843	35,651
OFFICE OF MINORITY BUSINESS ENTERPRISE	1,641	-	328	1,313
OFFICE OF TELECOMMUNICATIONS	1,032	103	299	630
PATENT AND TRADEMARK OFFICE	447	-	223	224
DEPARTMENT OF DEFENSE, TOTAL	12,108,130	314,030	1,864,467	9,929,633
DEPARTMENT OF THE ARMY	2,652,883	52,630	408,761	2,191,492
DEPARTMENT OF THE NAVY	4,273,700	135,700	266,600	3,871,400
DEPARTMENT OF THE AIR FORCE	4,403,340	87,000	780,000	3,536,340
DEFENSE AGENCIES	751,407	38,700	407,406	305,301
DEPARTMENTWIDE FUNDS	1,700	-	1,700	-
DIRECTOR OF TEST AND EVALUATION, DEFENSE	25,100	-	-	25,100
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	3,009,446	772,672	1,715,725	521,049
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	155,171	61,250	90,565	3,356
CENTER FOR DISEASE CONTROL	59,455	-	59,455	-
FOOD AND DRUG ADMINISTRATION	47,397	-	47,397	-
HEALTH RESOURCES ADMINISTRATION	33,715	3,021	25,270	5,424
HEALTH SERVICES ADMINISTRATION	14,891	315	10,556	4,020
NATIONAL INSTITUTE OF EDUCATION	103,950	17,700	18,100	68,150
NATIONAL INSTITUTES OF HEALTH	2,295,312	688,594	1,331,281	275,437
OFFICE OF EDUCATION	150,042	-	24,374	125,668
OFFICE OF HUMAN DEVELOPMENT	72,076	-	43,682	28,394
OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION	1,037	-	1,037	-
OFFICE OF THE SECRETARY	22,400	1,792	20,608	-
SOCIAL AND REHABILITATION SERVICE	31,200	-	31,200	-
SOCIAL SECURITY ADMINISTRATION	22,800	-	12,200	10,600
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	67,661	-	32,300	35,361
DEPARTMENT OF THE INTERIOR, TOTAL	361,495	147,043	142,068	72,384
BONNEVILLE POWER ADMINISTRATION	3,390	-	470	2,920
BUREAU OF LAND MANAGEMENT	1,362	-	1,235	127
BUREAU OF MINES	135,872	800	75,500	59,572
BUREAU OF OUTDOOR RECREATION	20	-	20	-
BUREAU OF RECLAMATION	9,031	75	8,596	360
GEOLOGICAL SURVEY	152,562	127,846	24,716	-
NATIONAL PARK SERVICE	11,798	725	11,073	-
OFFICE OF THE SECRETARY	2,448	2,162	286	-
OFFICE OF WATER RESEARCH AND TECHNOLOGY	21,112	3,963	12,524	4,625
UNITED STATES FISH AND WILDLIFE SERVICE	23,900	11,472	7,648	4,780
DEPARTMENT OF JUSTICE, TOTAL	39,049	6,600	20,275	12,174
BUREAU OF PRISONS	2,024	-	1,000	1,024
DRUG ENFORCEMENT ADMINISTRATION	3,300	-	600	2,700
FEDERAL BUREAU OF INVESTIGATION	1,825	-	-	1,825
IMMIGRATION AND NATURALIZATION SERVICE	400	-	175	225
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	29,500	6,600	16,500	6,400
OFFICE OF THE ATTORNEY GENERAL	2,000	-	2,000	-
DEPARTMENT OF LABOR, TOTAL	33,240	720	20,572	11,948
BUREAU OF LABOR STATISTICS	1,243	-	787	456
EMPLOYMENT AND TRAINING ADMINISTRATION	17,282	605	5,185	11,492
EMPLOYMENT STANDARDS ADMINISTRATION	5,550	-	5,550	-
LABOR-MANAGEMENT SERVICES ADMINISTRATION	2,965	115	2,850	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4,300	-	4,300	-
OFFICE OF THE SECRETARY	1,900	-	1,900	-
DEPARTMENT OF STATE, TOTAL	62,655	-	42,921	19,734
DEPARTMENTAL FUNDS	2,332	-	1,832	500
AGENCY FOR INTERNATIONAL DEVELOPMENT	60,323	-	41,089	19,234

CONTINUED ON NEXT PAGE

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	398,400	-	36,500	361,900
FEDERAL AVIATION ADMINISTRATION	123,200	-	5,700	117,500
FEDERAL HIGHWAY ADMINISTRATION	54,400	-	2,000	52,400
FEDERAL RAILROAD ADMINISTRATION	44,200	-	6,900	37,300
MATERIALS TRANSPORTATION BUREAU	1,000	-	100	900
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	51,300	-	13,700	37,600
OFFICE OF THE SECRETARY	31,200	-	4,700	26,500
UNITED STATES COAST GUARD	22,000	-	2,300	19,700
URBAN MASS TRANSPORTATION ADMINISTRATION	71,100	-	1,100	70,000
DEPARTMENT OF THE TREASURY, TOTAL	6,781	-	2,037	4,744
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	2,316	-	492	1,824
BUREAU OF ENGRAVING AND PRINTING	2,915	-	1,545	1,370
CUSTOMS SERVICE	1,550	-	-	1,550
OTHER AGENCIES				
ACTION	331	331	-	-
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,379	-	1,379	-
APPALACHIAN REGIONAL COMMISSION	800	-	800	-
CIVIL AERONAUTICS BOARD	496	-	496	-
CIVIL SERVICE COMMISSION	3,849	277	740	2,832
COMMUNITY SERVICES ADMINISTRATION	9,750	-	500	9,250
CONSUMER PRODUCT SAFETY COMMISSION	6,117	-	2,988	3,129
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	4,143,017	429,233	543,449	3,170,335
ENVIRONMENTAL PROTECTION AGENCY	310,500	18,000	166,000	126,500
FEDERAL COMMUNICATIONS COMMISSION	2,144	-	2,144	-
FEDERAL HOME LOAN BANK BOARD	993	-	993	-
FEDERAL TRADE COMMISSION	1,200	360	840	-
GENERAL SERVICES ADMINISTRATION	2,311	150	234	1,927
INTERSTATE COMMERCE COMMISSION	375	19	94	262
LIBRARY OF CONGRESS	3,394	157	236	3,001
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,847,650	365,359	1,061,135	2,421,156
NATIONAL SCIENCE FOUNDATION	757,530	677,329	71,942	8,259
NUCLEAR REGULATORY COMMISSION	139,100	-	139,100	-
OFFICE OF TELECOMMUNICATIONS POLICY	3,935	271	2,409	1,255
SMALL BUSINESS ADMINISTRATION	1,100	-	1,100	-
SMITHSONIAN INSTITUTION	32,135	32,135	-	-
TENNESSEE VALLEY AUTHORITY	31,166	-	27,535	3,631
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	2,550	-	2,350	200
UNITED STATES INFORMATION AGENCY	120	-	120	-
UNITED STATES INTERNATIONAL TRADE COMMISSION	2,800	-	2,800	-
VETERANS ADMINISTRATION	111,791	9,700	87,082	15,009

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	20,758.6	5,710.0	5,414.6	848.9	2,525.9	1,061.1	692.5	231.0	201.5	73.1
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	462.4	333.0	.5	-	119.6	-	.4	.1	.7	8.2
AGRICULTURAL RESEARCH SERVICE	242.1	229.2	.3	-	4.1	-	.3	-	.1	8.2
COOPERATIVE STATE RESEARCH SERVICE	113.4	3.0	-	-	109.9	-	-	-	.4	-
ECONOMIC RESEARCH SERVICE	24.0	23.3	-	-	.7	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1.2	1.2	-	-	*	-	-	-	-	-
FOREST SERVICE	79.9	74.6	.2	-	4.7	-	.1	.1	.2	-
NATIONAL AGRICULTURAL LIBRARY	*	*	-	-	*	-	-	-	-	-
STATISTICAL REPORTING SERVICE	1.9	1.7	-	-	.2	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	228.9	149.0	28.2	.2	27.9	.7	8.5	.4	14.0	*
BUREAU OF THE CENSUS	2.5	2.3	-	-	.2	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	15.1	.7	.6	.2	3.4	-	4.9	-	5.4	-
MARITIME ADMINISTRATION	19.0	2.5	14.5	-	.8	-	.6	.2	.4	*
NATIONAL BUREAU OF STANDARDS	47.4	46.6	.1	-	.6	-	.2	-	-	*
NATIONAL FIRE PREV & CONTROL ADMIN	6.4	3.7	.3	-	1.2	.5	.3	.1	.5	-
NATIONAL OCEANIC AND ATMOS ADMIN	135.1	91.4	12.7	-	21.7	.2	1.4	.1	7.5	*
OFFICE OF MINORITY BUSINESS ENTERP	2.0	.5	.1	-	-	-	1.1	-	.3	-
OFFICE OF TELECOMMUNICATIONS	.9	.9	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	.4	.4	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	9,654.7	2,823.2	6,098.1	81.7	230.2	156.3	109.4	145.6	-	10.1
DEPARTMENT OF THE ARMY	2,013.7	755.0	1,192.0	.2	37.3	12.5	13.5	2.2	-	1.0
DEPARTMENT OF THE NAVY	3,328.0	1,015.8	2,020.9	81.0	57.7	88.8	53.2	4.7	-	6.0
DEPARTMENT OF THE AIR FORCE	3,726.6	855.6	2,626.8	-	80.9	28.6	11.4	120.8	-	2.5
DEFENSE AGENCIES	561.6	175.3	257.1	.5	54.2	26.4	31.2	16.2	-	.6
DEPARTMENTWIDE FUNDS	.7	.1	.2	*	.1	-	.2	.1	-	-
DIRECTOR OF TEST & EVALUATION, DEF	24.1	21.4	1.0	-	-	-	-	1.7	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,545.9	493.4	133.3	36.0	1,349.4	5.8	385.1	4.6	109.0	29.4
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	139.5	24.3	7.4	-	78.2	-	17.1	.3	11.0	1.1
CENTER FOR DISEASE CONTROL	49.6	34.5	2.6	-	2.9	-	5.9	-	.1	3.5
FOOD AND DRUG ADMINISTRATION	37.1	22.8	2.8	-	7.7	-	1.0	-	1.9	1.0
HEALTH RESOURCES ADMINISTRATION	38.2	9.4	.3	-	15.9	-	9.2	-	.8	2.4
HEALTH SERVICES ADMINISTRATION	17.5	5.7	-	-	5.6	-	3.9	-	1.1	1.2
NATIONAL INSTITUTE OF EDUCATION	63.7	11.5	4.0	-	16.9	-	24.0	-	7.2	.2
NATIONAL INSTITUTES OF HEALTH	2,022.6	369.2	99.9	36.0	1,168.9	5.7	291.0	3.5	30.2	18.1
OFFICE OF EDUCATION	58.2	.5	3.0	-	21.9	.2	6.4	.2	26.1	-
OFFICE OF HUMAN DEVELOPMENT	61.9	4.5	6.3	-	24.4	-	19.2	-	5.7	1.8
OFFICE OF ASS'T SECTY FOR EDUCATION	1.0	.1	-	-	-	-	.7	.3	-	-
OFFICE OF THE SECRETARY	23.7	2.5	3.1	-	3.1	-	4.3	-	10.8	-
SOCIAL AND REHABILITATION SERVICE	18.6	.5	.1	-	2.4	-	1.8	-	13.8	-
SOCIAL SECURITY ADMINISTRATION	14.4	7.8	3.8	-	1.6	-	.6	.3	.2	-
DEPT OF HOUSING & URBAN DEVELOPMENT	67.6	15.8	26.0	.6	1.5	-	10.5	7.5	5.7	-
DEPARTMENT OF THE INTERIOR, TOTAL	314.2	220.2	65.2	-	26.4	.7	-	.4	1.1	.4
BONNEVILLE POWER ADMINISTRATION	7.0	3.5	2.9	-	.2	-	-	.2	-	.1
BUREAU OF LAND MANAGEMENT	.7	.3	-	-	.4	-	-	-	-	-
BUREAU OF MINES	131.3	71.5	51.3	-	7.4	.7	-	.2	.1	.2
BUREAU OF OUTDOOR RECREATION	*	*	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	8.3	5.2	1.6	-	.7	-	-	-	.7	-
GEOLOGICAL SURVEY	119.2	115.1	.5	-	3.5	-	-	-	.1	-
NATIONAL PARK SERVICE	9.3	4.8	.4	-	4.1	-	-	-	*	-
OFFICE OF THE SECRETARY	1.0	.4	.5	-	.1	-	-	-	-	.1
OFFICE OF WATER RES AND TECHNOLOGY	19.0	2.2	7.6	-	9.1	-	-	-	.1	-
US FISH AND WILDLIFE SERVICE	18.4	17.2	.2	-	.9	-	-	-	.1	-
DEPARTMENT OF JUSTICE, TOTAL	33.9	5.4	2.1	-	3.5	-	9.6	11.3	1.9	-
BUREAU OF PRISONS	.8	.4	.1	-	.2	-	.1	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	2.5	.5	.9	-	.3	-	.1	.8	-	-
FEDERAL BUREAU OF INVESTIGATION	1.2	.2	1.0	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	.1	*	.1	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	29.2	4.3	-	-	3.0	-	9.5	10.5	1.9	-
DEPARTMENT OF LABOR, TOTAL	28.5	10.8	5.7	-	5.0	.3	5.9	-	1.0	-
BUREAU OF LABOR STATISTICS	1.3	1.3	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	17.5	3.6	3.0	-	4.3	.2	5.6	-	1.0	-
EMPLOYMENT STANDARDS ADMINISTRATION	4.3	4.3	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	.7	.5	-	-	.1	-	.1	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	2.9	.3	2.6	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1.8	.8	.1	-	.6	.1	.2	-	-	-
DEPARTMENT OF STATE, TOTAL	39.4	5.8	1.8	-	12.0	-	7.6	.1	.3	11.9
DEPARTMENTAL FUNDS	1.6	.3	.5	-	.3	-	.2	.1	.3	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	37.8	5.5	1.2	-	11.7	-	7.4	-	-	11.9

CONTINUED ON NEXT PAGE

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL (1)	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPT OF TRANSPORTATION, TOTAL	294.5	63.1	158.7	-	14.8	2.4	3.6	11.0	40.8	.1
FEDERAL AVIATION ADMINISTRATION	98.1	21.9	64.1	-	.8	1.4	-	9.9	-	-
FEDERAL HIGHWAY ADMINISTRATION	28.9	.5	6.6	-	5.6	-	.4	-	15.8	-
FEDERAL RAILROAD ADMINISTRATION	50.4	19.6	26.8	-	.7	-	.6	1.1	1.5	.1
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	31.4	1.1	13.1	-	3.0	-	1.5	-	12.7	-
OFFICE OF THE SECRETARY	25.8	10.1	9.7	-	3.6	.8	.6	-	1.1	-
US COAST GUARD	12.4	3.3	8.2	-	.5	.1	.3	-	-	-
URBAN MASS TRANSPORTATION ADMIN	47.5	6.6	30.2	-	.6	*	.2	-	9.8	-
DEPARTMENT OF THE TREASURY, TOTAL	3.7	3.5	.2	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	2.8	2.6	.1	-	-	-	-	-	-	-
CUSTOMS SERVICE	1.0	.9	.1	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	.1	*	*	-	*	-	*	-	*	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1.0	1.0	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.7	*	.7	-	*	-	-	-	*	-
CIVIL AERONAUTICS BOARD	.4	.4	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	4.0	2.5	-	-	-	-	-	-	1.5	-
COMMUNITY SERVICES ADMINISTRATION	10.2	1.0	-	-	-	-	9.2	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	5.6	3.3	.6	-	.8	-	.5	-	.3	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	2,498.5	73.7	758.3	675.2	145.1	754.4	48.5	39.1	3.6	1.1
ENVIRONMENTAL PROTECTION AGENCY	259.1	123.0	67.1	-	29.3	-	17.6	.9	17.8	3.5
FEDERAL COMMUNICATIONS COMMISSION	1.5	1.0	.5	-	-	-	-	-	-	-
FEDERAL ENERGY ADMINISTRATION	3.0	1.0	1.6	-	.2	-	-	.2	-	-
FEDERAL HOME LOAN BANK BOARD	.8	.7	-	-	*	-	-	-	-	-
FEDERAL TRADE COMMISSION	.9	.9	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1.1	.2	.9	-	-	-	.1	-	-	-
INTERSTATE COMMERCE COMMISSION	.1	.1	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	3.0	3.0	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	3,446.8	1,168.3	2,042.1	-	118.9	83.6	28.4	3.1	.5	1.9
NATIONAL SCIENCE FOUNDATION	609.3	64.9	15.4	2.1	436.6	45.4	33.8	2.3	3.3	5.5
NUCLEAR REGULATORY COMMISSION	88.4	7.4	6.5	53.0	2.4	11.5	2.4	4.1	.1	1.1
OFFICE OF TELECOMMUNICATIONS POLICY	4.6	4.0	.3	-	.1	-	.2	*	-	-
SMALL BUSINESS ADMINISTRATION	.1	*	-	-	*	-	-	-	-	-
SMITHSONIAN INSTITUTION	25.7	24.7	-	-	.8	-	.2	-	-	-
TENNESSEE VALLEY AUTHORITY	18.7	7.9	-	-	.1	-	10.7	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1.4	.1	.5	.2	*	-	.2	.4	-	-
US INFORMATION AGENCY	.1	.1	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	1.5	1.5	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	97.7	95.9	.5	-	1.0	-	.2	-	-	-

* INDICATES AMOUNT LESS THAN $50,000.

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	24,465.3	6,467.0	11,402.2	1,061.5	2,851.1	1,194.6	768.7	252.6	365.3	102.2
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	525.3	381.2	.3	-	133.8	-	.1	.1	.7	9.1
AGRICULTURAL RESEARCH SERVICE	276.0	262.7	-	-	4.1	-	-	-	-	9.1
COOPERATIVE STATE RESEARCH SERVICE	128.7	4.9	-	-	123.3	-	-	-	.5	-
ECONOMIC RESEARCH SERVICE	26.2	25.9	-	-	.3	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1.3	1.3	-	-	*	-	-	-	-	-
FOREST SERVICE	90.9	84.3	.3	-	6.0	-	.1	.1	.2	-
STATISTICAL REPORTING SERVICE	2.1	1.9	-	-	.2	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	247.4	165.2	25.7	-	31.4	1.1	8.6	.4	14.8	.2
BUREAU OF THE CENSUS	2.7	2.5	-	-	.2	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	14.6	.4	.5	-	3.0	-	4.7	-	6.0	-
MARITIME ADMINISTRATION	17.9	2.0	14.1	-	.8	-	.5	.3	.3	-
NATIONAL BUREAU OF STANDARDS	53.9	53.0	.1	-	.6	-	.2	-	-	.1
NATIONAL FIRE PREV & CONTROL ADMIN	7.0	3.3	1.0	-	1.8	.3	.3	*	.4	-
NATIONAL OCEANIC AND ATMOS ADMIN	147.9	101.9	9.9	-	25.0	.8	1.7	.1	8.3	.2
OFFICE OF MINORITY BUSINESS ENTERP	2.0	.6	.1	-	-	-	1.3	-	-	-
OFFICE OF TELECOMMUNICATIONS	1.0	1.0	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	.4	.4	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	11,171.8	3,120.0	7,248.6	115.6	245.3	154.9	109.9	159.2	-	18.2
DEPARTMENT OF THE ARMY	2,495.6	906.0	1,509.4	.2	43.3	12.5	16.4	4.0	-	4.0
DEPARTMENT OF THE NAVY	3,871.6	1,054.4	2,479.3	115.1	66.5	90.4	50.8	4.7	-	10.3
DEPARTMENT OF THE AIR FORCE	4,091.1	921.6	2,908.1	-	84.5	29.5	11.6	132.2	-	3.6
DEFENSE AGENCIES	675.0	203.1	350.7	.4	50.9	22.5	30.9	16.2	-	.2
DEPARTMENTWIDE FUNDS	.9	.1	.3	*	.1	*	.2	.1	-	-
DIRECTOR OF TEST & EVALUATION, DEF	37.6	34.8	.7	-	-	-	-	2.0	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,959.5	546.9	161.4	40.2	1,506.4	6.8	414.5	3.2	238.0	42.1
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	155.0	28.2	7.1	-	85.1	-	20.9	-	11.1	2.5
CENTER FOR DISEASE CONTROL	60.4	42.0	3.3	-	5.0	-	5.9	-	.1	4.1
FOOD AND DRUG ADMINISTRATION	42.8	26.3	3.3	-	8.2	-	1.4	-	1.8	1.8
HEALTH RESOURCES ADMINISTRATION	37.0	9.3	.7	-	17.0	-	8.9	-	.9	.1
HEALTH SERVICES ADMINISTRATION	21.4	5.7	-	-	7.4	-	2.6	-	.8	4.9
NATIONAL INSTITUTE OF EDUCATION	85.7	15.4	5.4	-	22.5	-	29.4	-	12.7	.2
NATIONAL INSTITUTES OF HEALTH	2,233.9	404.3	112.5	40.2	1,297.7	6.6	307.4	3.2	38.4	23.5
OFFICE OF EDUCATION	174.7	.3	9.1	-	24.8	.1	6.5	-	133.9	-
OFFICE OF HUMAN DEVELOPMENT	78.1	4.6	7.9	-	32.1	-	22.1	-	6.3	5.0
OFFICE OF ASS'T SECTY FOR EDUCATION	1.0	.1	-	-	-	-	1.0	-	-	-
OFFICE OF THE SECRETARY	20.0	1.2	2.8	-	1.5	-	3.9	-	10.5	-
SOCIAL AND REHABILITATION SERVICE	29.3	.8	2.7	-	2.2	-	4.2	-	19.5	-
SOCIAL SECURITY ADMINISTRATION	20.1	8.7	6.6	-	2.8	-	-	-	2.1	-
DEPT OF HOUSING & URBAN DEVELOPMENT	62.7	13.9	22.1	-	2.8	-	15.7	-	8.1	-
DEPARTMENT OF THE INTERIOR, TOTAL	348.4	235.6	80.7	-	27.4	.7	-	.2	1.1	2.7
BONNEVILLE POWER ADMINISTRATION	5.8	2.8	2.9	-	.1	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	.9	.5	-	-	.5	-	-	-	-	-
BUREAU OF MINES	145.1	75.1	61.0	-	8.0	.7	-	.2	.1	-
BUREAU OF OUTDOOR RECREATION	*	*	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	10.3	5.2	3.1	-	1.4	-	-	-	.6	-
GEOLOGICAL SURVEY	130.8	124.1	2.4	-	4.1	-	-	-	.2	-
NATIONAL PARK SERVICE	9.9	5.0	.4	-	4.5	-	-	-	*	-
OFFICE OF THE SECRETARY	4.5	.9	1.0	-	.3	-	-	-	-	2.7
OFFICE OF WATER RES AND TECHNOLOGY	15.5	2.4	5.6	-	7.5	-	-	-	.1	-
US FISH AND WILDLIFE SERVICE	21.1	19.8	.3	-	.9	-	-	-	.2	-
DEPARTMENT OF JUSTICE, TOTAL	45.0	7.4	5.4	-	5.7	-	19.9	3.7	2.8	-
BUREAU OF PRISONS	1.3	.7	*	-	.4	-	.2	-	*	-
DRUG ENFORCEMENT ADMINISTRATION	6.5	1.2	3.5	-	.3	-	.5	1.0	-	-
FEDERAL BUREAU OF INVESTIGATION	1.4	.2	1.2	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	.8	.1	.7	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	35.0	5.3	-	-	5.0	-	19.2	2.7	2.8	-
DEPARTMENT OF LABOR, TOTAL	34.6	13.8	7.3	-	5.7	.1	5.6	-	2.0	-
BUREAU OF LABOR STATISTICS	1.4	1.4	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	19.1	4.5	3.2	-	4.4	-	5.1	-	2.0	-
EMPLOYMENT STANDARDS ADMINISTRATION	5.5	5.5	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	2.9	1.0	1.1	-	.5	-	.3	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3.3	.5	2.8	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	2.3	.9	.2	-	.8	.1	.3	-	-	-
DEPARTMENT OF STATE, TOTAL	46.2	9.4	1.2	-	21.3	*	8.7	-	-	5.5
DEPARTMENTAL FUNDS	1.6	.3	.3	-	.5	*	.4	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	44.6	9.2	.9	-	20.9	-	8.2	-	-	5.5

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TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPT OF TRANSPORTATION, TOTAL	407.4	76.3	221.4	-	23.4	3.0	8.9	12.8	61.4	.1
FEDERAL AVIATION ADMINISTRATION	117.5	26.1	76.7	-	1.3	1.7	-	11.7	-	-
FEDERAL HIGHWAY ADMINISTRATION	54.4	.7	12.0	-	11.7	-	.5	-	29.5	-
FEDERAL RAILROAD ADMINISTRATION	61.7	19.9	37.1	-	1.3	-	.6	1.1	1.5	.1
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN.	58.9	2.8	31.7	-	3.0	-	6.3	-	15.2	-
OFFICE OF THE SECRETARY	33.1	13.4	13.0	-	3.5	1.1	.8	-	1.3	-
US COAST GUARD	22.3	5.2	15.8	-	.6	.2	.5	-	-	-
URBAN MASS TRANSPORTATION ADMIN	59.5	8.1	35.2	-	2.0	*	.3	-	13.9	-
DEPARTMENT OF THE TREASURY, TOTAL	5.3	3.8	.2	-	.1	-	-	1.2	-	-
BUREAU OF ALCOHOL TOBACCO & FIREARMS	1.3	.1	-	-	-	-	-	1.2	-	-
BUREAU OF ENGRAVING AND PRINTING	2.8	2.8	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	1.2	.8	.2	-	.1	-	-	*	-	-
OTHER AGENCIES										
ACTION	.3	*	.1	-	-	-	.2	-	-	-
ADV COMM ON INTERGOVERNMNTL RELATIONS.	1.2	1.2	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.8	*	.8	-	*	-	-	-	*	-
CIVIL AERONAUTICS BOARD	.5	.5	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	3.8	2.3	-	-	*	-	-	-	1.5	-
COMMUNITY SERVICES ADMINISTRATION	19.0	1.0	-	-	-	-	18.0	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	7.2	2.6	2.3	-	.1	-	1.8	-	.3	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	3,609.8	256.7	1,323.7	833.0	189.7	882.3	48.5	62.1	3.7	10.2
ENVIRONMENTAL PROTECTION AGENCY	361.4	151.9	112.0	-	42.0	-	24.0	1.5	24.0	6.0
FEDERAL COMMUNICATIONS COMMISSION	2.1	1.5	.5	-	-	-	-	-	-	-
FEDERAL ENERGY ADMINISTRATION	6.1	.8	4.8	-	.2	.2	-	.1	-	-
FEDERAL HOME LOAN BANK BOARD	1.0	.9	-	-	.1	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.1	1.1	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1.4	.2	1.2	-	-	-	.1	-	-	-
INTERSTATE COMMERCE COMMISSION	.6	.1	.4	-	.1	-	-	-	-	-
LIBRARY OF CONGRESS	3.1	3.0	.1	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	3,609.8	1,220.8	2,154.6	-	117.0	82.7	29.7	2.6	.5	1.8
NATIONAL SCIENCE FOUNDATION	686.2	81.3	17.9	2.4	492.3	45.7	33.8	.7	6.0	6.1
NUCLEAR REGULATORY COMMISSION	113.9	8.9	7.1	70.0	3.4	17.1	2.5	4.5	.3	-
OFFICE OF TELECOMMUNICATIONS POLICY	3.5	3.0	.4	-	.1	-	.1	-	-	-
SMALL BUSINESS ADMINISTRATION	1.0	.9	.1	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	30.6	28.5	-	-	1.5	-	.6	-	-	-
TENNESSEE VALLEY AUTHORITY	31.7	14.6	-	-	.1	-	16.9	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2.4	.3	.9	.1	.1	*	.7	.2	-	-
US INFORMATION AGENCY	.1	.1	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	2.8	2.8	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	110.4	108.2	.8	-	1.3	-	-	-	-	-

* INDICATES AMOUNT LESS THAN $50,000.

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	26,316.7	6,547.6	12,918.9	1,150.0	3,060.1	1,217.0	771.7	220.5	353.3	77.5
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	573.8	398.4	.3	-	166.3	-	.1	.1	.8	8.0
AGRICULTURAL RESEARCH SERVICE	309.1	272.5	-	-	28.6	-	-	-	-	8.0
COOPERATIVE STATE RESEARCH SERVICE	136.4	5.2	-	-	130.6	-	-	-	.6	-
ECONOMIC RESEARCH SERVICE	28.3	28.1	-	-	.3	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1.6	1.6	-	-	-	-	-	-	-	-
FOREST SERVICE	96.4	89.2	.3	-	6.6	-	.1	.1	.2	-
STATISTICAL REPORTING SERVICE	2.1	1.9	-	-	.2	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	239.5	168.6	23.7	-	29.7	.4	5.7	.8	10.3	.3
BUREAU OF THE CENSUS	2.8	2.6	-	-	.2	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	4.5	.2	.3	-	1.0	-	1.8	-	1.3	-
MARITIME ADMINISTRATION	16.4	1.8	12.9	-	.8	-	.4	.2	.2	-
NATIONAL BUREAU OF STANDARDS	50.3	49.3	.1	-	.6	-	.2	-	-	.2
NATIONAL FIRE PREV & CONTROL ADMIN	6.7	3.3	.6	-	1.8	.3	.3	.4	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	155.8	109.6	9.7	-	25.4	.1	1.9	.2	8.8	.1
OFFICE OF MINORITY BUSINESS ENTERP	1.6	.4	.1	-	-	-	1.1	-	-	-
OFFICE OF TELECOMMUNICATIONS	1.0	1.0	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	.4	.4	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	12,108.1	3,201.4	8,181.4	90.2	309.4	78.6	111.7	120.0	-	15.5
DEPARTMENT OF THE ARMY	2,652.9	984.4	1,577.7	*	49.6	17.8	18.9	2.2	-	2.2
DEPARTMENT OF THE NAVY	4,273.7	1,059.7	2,909.9	90.0	131.8	11.8	54.5	4.7	-	11.3
DEPARTMENT OF THE AIR FORCE	4,403.3	914.1	3,273.0	-	79.8	31.5	11.9	91.1	-	1.8
DEFENSE AGENCIES	751.4	221.3	419.0	.1	47.9	17.4	25.8	19.6	-	.2
DEPARTMENTWIDE FUNDS	1.7	.3	.6	.1	.2	-	.4	.2	-	-
DIRECTOR OF TEST & EVALUATION, DEF	25.1	21.7	1.3	-	-	-	-	2.1	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	3,009.4	572.6	165.9	46.0	1,526.4	12.0	425.5	4.3	225.8	31.0
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	155.2	32.7	7.2	-	82.0	-	20.4	-	10.8	2.1
CENTER FOR DISEASE CONTROL	59.5	42.7	3.3	-	3.9	-	5.9	-	.1	3.6
FOOD AND DRUG ADMINISTRATION	47.4	29.4	3.8	-	10.4	-	1.1	-	2.0	.8
HEALTH RESOURCES ADMINISTRATION	33.7	7.9	.2	-	12.6	-	10.7	-	.9	1.5
HEALTH SERVICES ADMINISTRATION	14.9	5.7	-	-	4.9	-	1.3	-	.8	2.2
NATIONAL INSTITUTE OF EDUCATION	104.0	18.7	6.2	-	27.4	-	38.3	-	13.1	.2
NATIONAL INSTITUTES OF HEALTH	2,295.3	418.4	115.8	46.0	1,328.9	7.5	312.5	4.3	41.3	20.6
OFFICE OF EDUCATION	150.0	.5	8.4	-	17.6	.1	7.4	-	116.1	-
OFFICE OF HUMAN DEVELOPMENT	72.1	4.8	7.6	-	31.5	-	21.9	-	6.2	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1.0	.1	-	-	-	-	1.0	-	-	-
OFFICE OF THE SECRETARY	22.4	1.3	3.2	-	1.7	4.4	-	-	11.7	-
SOCIAL AND REHABILITATION SERVICE	31.2	.8	2.7	-	2.2	-	5.0	-	20.6	-
SOCIAL SECURITY ADMINISTRATION	22.8	9.6	7.6	-	3.3	-	-	-	2.3	-
DEPT OF HOUSING & URBAN DEVELOPMENT	67.7	15.2	25.0	-	2.9	-	16.5	-	8.0	-
DEPARTMENT OF THE INTERIOR, TOTAL	361.5	252.6	70.6	.4	34.1	.7	-	.2	1.9	1.0
BONNEVILLE POWER ADMINISTRATION	3.4	1.5	1.7	-	.2	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	1.4	.5	-	-	.9	-	-	-	-	-
BUREAU OF MINES	135.9	70.9	56.0	-	8.0	.7	-	.2	.1	-
BUREAU OF OUTDOOR RECREATION	*	*	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	9.0	4.3	2.0	-	1.3	-	-	-	1.5	-
GEOLOGICAL SURVEY	152.6	144.6	1.9	-	6.1	-	-	-	-	-
NATIONAL PARK SERVICE	11.8	5.4	-	.4	6.0	-	-	-	.1	-
OFFICE OF THE SECRETARY	2.4	.9	.3	-	.3	-	-	-	-	1.0
OFFICE OF WATER RES AND TECHNOLOGY	21.1	2.2	8.4	-	10.4	-	-	-	.1	-
US FISH AND WILDLIFE SERVICE	23.9	22.5	.3	-	1.0	-	-	-	.2	-
DEPARTMENT OF JUSTICE, TOTAL	39.0	8.5	3.9	-	6.8	-	13.5	4.5	1.7	-
BUREAU OF PRISONS	2.0	.7	.1	-	.6	-	.2	-	.4	-
DRUG ENFORCEMENT ADMINISTRATION	3.3	.8	1.5	-	.3	-	-	.8	-	-
FEDERAL BUREAU OF INVESTIGATION	1.8	.3	1.5	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	.4	.1	.3	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	29.5	6.7	-	-	5.0	-	12.8	3.8	1.3	-
OFFICE OF THE ATTORNEY GENERAL	2.0	.1	.5	-	.9	-	.5	-	-	-
DEPARTMENT OF LABOR, TOTAL	33.2	13.3	7.9	-	5.1	.1	5.1	-	1.7	-
BUREAU OF LABOR STATISTICS	1.2	1.2	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	17.3	4.1	2.9	-	3.9	-	4.6	-	1.7	-
EMPLOYMENT STANDARDS ADMINISTRATION	5.6	5.6	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	3.0	1.1	1.1	-	.5	-	.3	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4.3	.6	3.7	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1.9	.7	.2	-	.6	.1	.2	-	-	-
DEPARTMENT OF STATE, TOTAL	62.7	9.6	4.3	-	29.1	.1	14.1	-	-	5.6
DEPARTMENTAL FUNDS	2.3	.3	.6	-	.8	.1	.5	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	60.3	9.3	3.7	-	28.2	-	13.5	-	-	5.6

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TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(MILLIONS OF DOLLARS)

'- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPT OF TRANSPORTATION, TOTAL	398.4	73.4	213.5	-	24.1	3.0	7.7	13.2	63.5	.1
FEDERAL AVIATION ADMINISTRATION	123.2	27.4	80.5	-	1.2	1.8	-	12.3	-	-
FEDERAL HIGHWAY ADMINISTRATION	54.4	.7	12.0	-	11.1	-	.5	-	30.1	-
FEDERAL RAILROAD ADMINISTRATION	44.2	15.5	24.8	-	1.3	-	.5	.9	1.2	.1
MATERIALS TRANSPORTATION BUREAU	1.0	.2	.8	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN.	51.3	2.3	26.2	-	3.6	-	5.2	-	14.0	-
OFFICE OF THE SECRETARY	31.2	12.3	11.8	-	4.2	1.0	.7	-	1.3	-
US COAST GUARD	22.0	5.4	15.2	-	.7	.2	.5	-	-	-
URBAN MASS TRANSPORTATION ADMIN	71.1	9.5	42.3	-	2.0	*	.3	-	16.9	-
DEPARTMENT OF THE TREASURY, TOTAL	6.8	3.9	.3	-	.1	-	-	2.5	-	-
BUREAU OF ALCOHOL TOBACCO & FIREARMS	2.3	.1	-	-	-	-	-	2.2	-	-
BUREAU OF ENGRAVING AND PRINTING	2.9	2.9	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	1.6	.9	.3	-	.1	-	-	.3	-	-
OTHER AGENCIES										
ACTION	.3	*	-	-	-	-	.3	-	-	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1.4	1.4	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.8	*	.8	-	*	-	-	-	*	-
CIVIL AERONAUTICS BOARD	.5	.5	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	3.8	2.3	-	-	-	-	-	-	1.5	-
COMMUNITY SERVICES ADMINISTRATION	9.8	1.0	1.0	-	-	-	7.8	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	6.1	2.3	1.7	-	.1	-	1.7	-	.3	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	4,143.0	165.4	1,733.6	922.6	215.9	972.6	59.7	63.9	8.6	.7
ENVIRONMENTAL PROTECTION AGENCY	310.5	140.7	85.0	-	38.0	-	20.0	1.5	20.0	5.3
FEDERAL COMMUNICATIONS COMMISSION	2.1	1.7	.4	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	1.0	.9	-	-	.1	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.2	1.2	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	2.3	.1	2.0	-	-	-	.1	-	-	-
INTERSTATE COMMERCE COMMISSION	.4	.4	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	3.4	3.1	.3	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	3,847.7	1,258.5	2,367.9	-	120.0	75.0	21.5	2.5	.5	1.8
NATIONAL SCIENCE FOUNDATION	757.5	83.6	20.9	2.9	543.2	55.1	34.3	1.8	8.6	7.2
NUCLEAR REGULATORY COMMISSION	139.1	9.6	6.3	87.7	5.2	19.4	5.3	4.4	.2	1.2
OFFICE OF TELECOMMUNICATIONS POLICY	3.9	2.9	.5	-	.3	-	.2	.1	-	-
SMALL BUSINESS ADMINISTRATION	1.1	.1	1.0	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	32.1	29.3	-	-	1.8	-	1.1	-	-	-
TENNESSEE VALLEY AUTHORITY	31.2	11.4	-	-	.2	-	19.5	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2.6	.3	.7	.3	.1	-	.4	.8	-	-
US INFORMATION AGENCY	.1	.1	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	2.8	2.8	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	111.8	110.3	.1	-	1.4	-	-	-	-	-

* INDICATES AMOUNT LESS THAN $50,000.

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	7,873,304	2,868,131	1,364,164	182,707	2,267,623	549,116	442,473	57,728	92,670	48,692
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	442,224	313,750	385	-	119,162	-	369	68	708	7,782
AGRICULTURAL RESEARCH SERVICE	227,584	215,624	140	-	3,657	-	302	-	79	7,782
COOPERATIVE STATE RESEARCH SERVICE	113,389	3,021	-	-	109,930	-	-	-	438	-
ECONOMIC RESEARCH SERVICE	23,962	23,252	-	-	710	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1,205	1,204	-	-	1	-	-	-	-	-
FOREST SERVICE	74,503	69,214	245	-	4,718	-	67	68	191	-
NATIONAL AGRICULTURAL LIBRARY	8	3	-	-	5	-	-	-	-	-
STATISTICAL REPORTING SERVICE	1,573	1,432	-	-	141	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	155,713	117,327	11,007	150	19,205	207	2,343	100	5,325	49
BUREAU OF THE CENSUS	2,137	1,962	-	-	175	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,063	423	119	150	697	-	672	-	2	-
MARITIME ADMINISTRATION	4,976	700	3,615	-	391	-	263	-	-	7
NATIONAL BUREAU OF STANDARDS	37,530	36,872	-	-	582	-	42	-	-	34
NATIONAL FIRE PREV & CONTROL ADMIN	3,195	2,711	65	-	419	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	104,870	74,021	7,190	-	16,941	207	1,137	100	5,266	8
OFFICE OF MINORITY BUSINESS ENTERP	405	101	18	-	-	-	229	-	57	-
OFFICE OF TELECOMMUNICATIONS	350	350	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	187	187	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,787,759	674,167	795,774	563	211,620	43,347	45,094	13,405	-	3,789
DEPARTMENT OF THE ARMY	306,425	210,416	58,127	-	27,978	102	8,872	102	-	828
DEPARTMENT OF THE NAVY	314,900	181,982	53,718	-	55,128	18,210	4,031	578	-	1,253
DEPARTMENT OF THE AIR FORCE	821,600	198,512	535,077	-	78,099	744	8,053	-	-	1,115
DEFENSE AGENCIES	344,134	83,152	148,607	531	50,335	24,291	23,963	12,662	-	593
DEPARTMENTWIDE FUNDS	700	105	245	32	80	-	175	63	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,162,938	463,819	63,192	35,990	1,198,265	5,678	299,115	3,611	71,230	22,038
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	136,617	24,273	4,613	-	78,168	-	17,079	339	11,023	1,122
CENTER FOR DISEASE CONTROL	49,596	34,471	2,616	-	2,941	-	5,945	-	82	3,541
FOOD AND DRUG ADMINISTRATION	37,077	22,810	2,765	-	7,682	-	1,007	-	1,857	956
HEALTH RESOURCES ADMINISTRATION	30,971	7,581	279	-	14,057	-	8,320	-	734	-
HEALTH SERVICES ADMINISTRATION	9,509	3,868	-	-	2,528	-	1,209	-	708	1,196
NATIONAL INSTITUTE OF EDUCATION	10,798	1,957	674	-	2,865	-	4,077	-	1,225	-
NATIONAL INSTITUTES OF HEALTH	1,779,897	356,127	42,733	35,990	1,057,501	5,678	242,027	2,740	23,676	13,425
OFFICE OF EDUCATION	21,428	136	2,371	-	9,916	-	3,958	-	5,047	-
OFFICE OF HUMAN DEVELOPMENT	34,624	2,563	2,330	-	16,953	-	8,764	-	2,216	1,798
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	75	-	-	-	-	659	303	-	-
OFFICE OF THE SECRETARY	23,704	2,500	3,082	-	3,066	-	4,250	-	10,806	-
SOCIAL AND REHABILITATION SERVICE	18,580	514	86	-	2,378	-	1,786	-	13,816	-
SOCIAL SECURITY ADMINISTRATION	9,100	6,944	1,643	-	210	-	34	229	40	-
DEPT OF HOUSING & URBAN DEVELOPMENT	36,945	11,106	14,011	-	1,534	-	2,807	7,487	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	240,502	180,848	35,695	-	22,907	-	-	-	982	70
BONNEVILLE POWER ADMINISTRATION	462	125	309	-	28	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	653	235	-	-	418	-	-	-	-	-
BUREAU OF MINES	73,300	40,239	28,941	-	4,120	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	20	20	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	7,925	4,867	1,615	-	713	-	-	-	730	-
GEOLOGICAL SURVEY	119,154	115,079	525	-	3,493	-	-	-	57	-
NATIONAL PARK SERVICE	9,272	4,767	390	-	4,098	-	-	-	17	-
OFFICE OF THE SECRETARY	1,045	395	530	-	50	-	-	-	-	70
OFFICE OF WATER RES AND TECHNOLOGY	13,951	1,610	3,167	-	9,117	-	-	-	57	-
US FISH AND WILDLIFE SERVICE	14,720	13,511	218	-	870	-	-	-	121	-
DEPARTMENT OF JUSTICE, TOTAL	18,317	2,779	132	-	3,079	-	8,916	1,467	1,944	-
DRUG ENFORCEMENT ADMINISTRATION	500	100	-	-	300	-	100	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	133	1	132	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	17,684	2,678	-	-	2,779	-	8,816	1,467	1,944	-
DEPARTMENT OF LABOR, TOTAL	18,000	9,170	4,055	-	2,775	130	1,870	-	-	-
BUREAU OF LABOR STATISTICS	776	776	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	7,544	2,539	1,382	-	2,058	-	1,565	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,268	4,268	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	731	474	-	-	131	-	126	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	2,900	300	2,600	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,781	813	73	-	586	130	179	-	-	-
DEPARTMENT OF STATE, TOTAL	25,128	5,316	1,052	-	9,890	-	3,482	89	257	5,042
DEPARTMENTAL FUNDS	1,121	217	98	-	308	-	152	89	257	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	24,007	5,099	954	-	9,582	-	3,330	-	-	5,042

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TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPT OF TRANSPORTATION, TOTAL	31,100	10,819	14,331	-	2,451	10	1,108	90	2,291	-
FEDERAL AVIATION ADMINISTRATION	3,600	641	2,639	-	230	-	-	90	-	-
FEDERAL HIGHWAY ADMINISTRATION	1,900	188	480	-	633	-	434	-	165	-
FEDERAL RAILROAD ADMINISTRATION	8,600	6,703	1,845	-	52	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,900	272	7,149	-	1,206	-	485	-	788	-
OFFICE OF THE SECRETARY	3,900	1,545	904	-	258	-	142	-	1,051	-
US COAST GUARD	2,600	1,187	1,294	-	72	-	47	-	-	-
URBAN MASS TRANSPORTATION ADMIN	600	283	20	-	-	10	-	-	287	-
DEPARTMENT OF THE TREASURY, TOTAL	1,474	1,474	-	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,474	1,474	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	75	15	15	-	5	-	25	-	15	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,026	1,026	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	715	20	684	-	5	-	-	-	10	-
CIVIL AERONAUTICS BOARD	445	445	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	1,127	1,127	-	-	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,477	1,595	422	-	736	-	390	-	334	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	746,499	21,522	54,449	90,757	116,323	417,680	22,943	22,194	220	411
ENVIRONMENTAL PROTECTION AGENCY	155,395	77,985	35,836	-	29,327	-	4,584	307	6,155	1,201
FEDERAL COMMUNICATIONS COMMISSION	1,534	986	548	-	-	-	-	-	-	-
FEDERAL ENERGY ADMINISTRATION	1,048	295	527	-	226	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	782	748	-	-	34	-	-	-	-	-
FEDERAL TRADE COMMISSION	850	850	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	359	90	241	-	-	-	28	-	-	-
INTERSTATE COMMERCE COMMISSION	123	123	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	427	427	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,222,841	780,343	310,015	-	97,836	25,118	5,356	2,216	178	1,779
NATIONAL SCIENCE FOUNDATION	595,776	64,047	14,510	2,127	428,760	45,446	30,320	2,138	2,969	5,459
NUCLEAR REGULATORY COMMISSION	88,432	7,430	6,548	52,970	2,400	11,500	2,400	4,060	52	1,072
OFFICE OF TELECOMMUNICATIONS POLICY	1,896	1,300	298	-	54	-	197	47	-	-
SMALL BUSINESS ADMINISTRATION	52	5	-	-	47	-	-	-	-	-
SMITHSONIAN INSTITUTION	25,735	24,679	-	-	848	-	208	-	-	-
TENNESSEE VALLEY AUTHORITY	16,466	5,688	-	-	108	-	10,670	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,394	84	437	150	26	-	248	449	-	-
US INFORMATION AGENCY	99	99	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	1,500	1,500	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	85,127	85,127	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	8,853,265	3,161,826	1,555,254	222,623	2,545,066	631,661	499,610	49,461	123,317	64,447
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	501,338	358,055	250	-	133,363	-	70	70	714	8,816
AGRICULTURAL RESEARCH SERVICE	259,419	246,958	-	-	3,645	-	-	-	-	8,816
COOPERATIVE STATE RESEARCH SERVICE	128,655	4,906	-	-	123,275	-	-	-	514	-
ECONOMIC RESEARCH SERVICE	26,200	25,922	-	-	278	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1,335	1,330	-	-	5	-	-	-	-	-
FOREST SERVICE	83,889	77,299	250	-	6,000	-	70	70	200	-
STATISTICAL REPORTING SERVICE	1,800	1,640	-	-	160	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	174,633	132,038	7,865	-	23,989	1,051	2,820	131	6,491	248
BUREAU OF THE CENSUS	2,292	2,110	-	-	182	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,066	131	100	-	507	-	963	-	365	-
MARITIME ADMINISTRATION	4,469	637	3,376	-	304	-	152	-	-	-
NATIONAL BUREAU OF STANDARDS	42,666	41,948	-	-	580	-	40	-	-	98
NATIONAL FIRE PREV & CONTROL ADMIN	4,614	2,564	79	-	1,671	300	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	117,501	83,773	4,300	-	20,745	751	1,525	131	6,126	150
OFFICE OF MINORITY BUSINESS ENTERP	400	250	10	-	-	-	140	-	-	-
OFFICE OF TELECOMMUNICATIONS	402	402	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	223	223	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,951,701	737,324	868,613	399	222,866	58,275	47,682	13,127	-	3,415
DEPARTMENT OF THE ARMY	375,310	256,145	73,508	-	32,728	90	11,950	-	-	889
DEPARTMENT OF THE NAVY	354,600	192,000	55,801	-	63,741	36,169	5,419	566	-	1,104
DEPARTMENT OF THE AIR FORCE	817,600	195,652	530,819	-	80,716	1,014	8,191	-	-	1,208
DEFENSE AGENCIES	403,091	93,392	208,170	359	45,577	21,002	21,897	12,480	-	214
DEPARTMENTWIDE FUNDS	900	135	315	40	104	-	225	81	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,430,054	513,870	75,646	40,210	1,336,622	6,645	324,732	2,499	94,079	35,751
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	152,114	28,220	4,251	-	85,148	-	20,888	-	11,089	2,518
CENTER FOR DISEASE CONTROL	60,440	42,045	3,271	-	5,000	-	5,931	-	100	4,093
FOOD AND DRUG ADMINISTRATION	42,828	26,339	3,341	-	8,153	-	1,401	-	1,800	1,794
HEALTH RESOURCES ADMINISTRATION	32,994	7,899	644	-	15,600	-	8,047	-	804	-
HEALTH SERVICES ADMINISTRATION	13,493	4,190	-	-	2,537	-	1,103	-	805	4,858
NATIONAL INSTITUTE OF EDUCATION	24,900	4,482	1,495	-	6,734	-	8,702	-	3,487	-
NATIONAL INSTITUTES OF HEALTH	1,965,828	388,104	49,235	40,210	1,175,578	6,645	254,913	2,499	31,205	17,439
OFFICE OF EDUCATION	27,900	72	2,934	-	9,820	-	3,074	-	12,000	-
OFFICE OF HUMAN DEVELOPMENT	49,595	2,960	3,422	-	23,839	-	11,528	-	2,797	5,049
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	75	-	-	-	-	962	-	-	-
OFFICE OF THE SECRETARY	20,000	1,192	2,840	-	1,536	-	3,944	-	10,488	-
SOCIAL AND REHABILITATION SERVICE	29,325	750	2,655	-	2,227	-	4,239	-	19,4[illegible]	-
SOCIAL SECURITY ADMINISTRATION	9,600	7,542	1,558	-	450	-	-	-	50	-
DEPT OF HOUSING & URBAN DEVELOPMENT	34,100	9,721	12,973	-	2,823	-	8,583	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	265,017	194,043	43,492	-	23,711	-	-	-	1,047	2,724
BONNEVILLE POWER ADMINISTRATION	220	80	140	-	-	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	820	345	-	-	475	-	-	-	-	-
BUREAU OF MINES	79,700	41,200	34,000	-	4,500	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	20	20	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	9,958	4,869	3,103	-	1,414	-	-	-	572	-
GEOLOGICAL SURVEY	130,842	124,078	2,442	-	4,082	-	-	-	240	-
NATIONAL PARK SERVICE	9,858	4,970	395	-	4,513	-	-	-	20	-
OFFICE OF THE SECRETARY	4,922	898	1,000	-	300	-	-	-	-	2,724
OFFICE OF WATER RES AND TECHNOLOGY	11,757	2,003	2,162	-	7,527	-	-	-	65	-
US FISH AND WILDLIFE SERVICE	16,880	15,580	250	-	900	-	-	-	150	-
DEPARTMENT OF JUSTICE, TOTAL	26,197	3,670	385	-	5,497	-	14,115	1,200	1,330	-
BUREAU OF PRISONS	297	55	-	-	197	-	15	-	30	-
DRUG ENFORCEMENT ADMINISTRATION	500	200	-	-	300	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	400	15	385	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	25,000	3,400	-	-	5,000	-	14,100	1,200	1,300	-
DEPARTMENT OF LABOR, TOTAL	21,634	11,989	5,104	-	2,924	100	1,064	-	453	-
BUREAU OF LABOR STATISTICS	896	896	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	6,702	3,138	965	-	1,621	-	525	-	453	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,535	5,535	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	2,889	999	1,102	-	500	-	288	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3,300	500	2,800	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	2,312	921	237	-	803	100	251	-	-	-
DEPARTMENT OF STATE, TOTAL	32,311	8,131	269	-	17,992	-	2,822	-	-	3,097
DEPARTMENTAL FUNDS	1,332	235	163	-	490	-	444	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	30,979	7,896	106	-	17,502	-	2,378	-	-	3,097

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TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPT OF TRANSPORTATION, TOTAL	46,000	12,372	23,219	-	2,694	15	3,239	90	4,371	-
FEDERAL AVIATION ADMINISTRATION	5,100	908	3,776	-	326	-	-	90	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	198	505	-	667	-	457	-	173	-
FEDERAL RAILROAD ADMINISTRATION	8,800	6,859	1,863	-	78	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	21,000	1,045	13,744	-	1,200	-	2,540	-	2,471	-
OFFICE OF THE SECRETARY	5,000	1,981	1,159	-	331	-	182	-	1,347	-
US COAST GUARD	3,300	1,006	2,142	-	92	-	60	-	-	-
URBAN MASS TRANSPORTATION ADMIN	800	375	30	-	-	15	-	-	380	-
DEPARTMENT OF THE TREASURY, TOTAL	1,903	1,553	-	-	-	-	-	350	-	-
BUREAU OF ALCOHOL TOBACCO & FIREARMS	440	90	-	-	-	-	-	350	-	-
BUREAU OF ENGRAVING AND PRINTING	1,463	1,463	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	94	8	76	-	-	-	10	-	-	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,172	1,172	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	800	24	760	-	6	-	-	-	10	-
CIVIL AERONAUTICS BOARD	496	496	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	1,017	1,017	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,400	-	-	-	-	-	1,400	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,302	931	1,114	-	68	-	841	-	348	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	879,703	31,679	65,102	109,427	143,636	477,969	26,721	24,407	333	429
ENVIRONMENTAL PROTECTION AGENCY	214,600	94,069	60,000	-	42,000	-	7,920	500	8,000	2,111
FEDERAL COMMUNICATIONS COMMISSION	2,060	1,527	533	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	995	927	-	-	68	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,110	1,110	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	161	111	20	-	-	-	30	-	-	-
INTERSTATE COMMERCE COMMISSION	618	118	445	-	55	-	-	-	-	-
LIBRARY OF CONGRESS	375	375	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,310,257	816,062	363,857	-	96,000	24,814	5,733	1,847	184	1,760
NATIONAL SCIENCE FOUNDATION	674,482	80,426	17,117	2,427	485,491	45,662	31,068	488	5,707	6,096
NUCLEAR REGULATORY COMMISSION	113,888	8,948	7,065	70,020	3,418	17,120	2,545	4,522	250	-
OFFICE OF TELECOMMUNICATIONS POLICY	2,299	1,741	357	-	120	-	81	-	-	-
SMALL BUSINESS ADMINISTRATION	1,027	882	145	-	-		-	-	-	-
SMITHSONIAN INSTITUTION	30,569	28,506	-	-	1,490	-	573	-	-	-
TENNESSEE VALLEY AUTHORITY	27,478	10,440	-	-	133	-	16,905	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,165	182	847	140	100	10	656	230	-	-
US INFORMATION AGENCY	134	134	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	2,800	2,800	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	95,375	95,375	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA- MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	9,490,463	3,297,858	1,802,990	257,157	2,719,469	659,823	522,121	54,188	124,992	51,865
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	547,870	376,000	250	-	163,071	-	70	70	753	7,656
AGRICULTURAL RESEARCH SERVICE	290,507	257,426	-	-	25,425	-	-	-	-	7,656
COOPERATIVE STATE RESEARCH SERVICE	136,361	5,170	-	-	130,638	-	-	-	553	-
ECONOMIC RESEARCH SERVICE	28,331	28,053	-	-	278	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1,574	1,574	-	-	-	-	-	-	-	-
FOREST SERVICE	89,297	82,137	250	-	6,570	-	70	70	200	-
STATISTICAL REPORTING SERVICE	1,800	1,640	-	-	160	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	174,876	136,112	6,927	-	20,866	300	3,204	234	6,963	270
BUREAU OF THE CENSUS	2,395	2,200	-	-	195	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,000	100	120	-	480	-	1,080	-	220	-
MARITIME ADMINISTRATION	4,095	583	3,094	-	279	-	139	-	-	-
NATIONAL BUREAU OF STANDARDS	40,670	39,880	-	-	580	-	40	-	-	170
NATIONAL FIRE PREV & CONTROL ADMIN	4,664	2,556	79	-	1,729	300	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	120,099	90,386	3,618	-	17,603	-	1,715	234	6,743	100
OFFICE OF MINORITY BUSINESS ENTERP	328	82	16	-	-	-	230	-	-	-
OFFICE OF TELECOMMUNICATIONS	402	402	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	223	223	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,178,497	778,992	1,064,614	191	247,813	21,524	45,954	15,706	-	3,703
DEPARTMENT OF THE ARMY	461,391	294,125	110,522	25	41,097	210	14,355	-	-	1,057
DEPARTMENT OF THE NAVY	402,300	199,437	103,403	-	87,964	3,192	6,540	595	-	1,169
DEPARTMENT OF THE AIR FORCE	867,000	182,568	597,429	-	76,258	1,043	8,425	-	-	1,277
DEFENSE AGENCIES	446,106	102,607	252,665	90	42,299	17,079	16,209	14,957	-	200
DEPARTMENTWIDE FUNDS	1,700	255	595	76	195	-	425	154	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,488,357	536,919	78,823	45,992	1,363,296	11,912	329,831	3,336	94,441	23,847
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	151,815	32,640	3,833	-	82,043	-	20,440	-	10,775	2,084
CENTER FOR DISEASE CONTROL	59,455	42,667	3,301	-	3,900	-	5,931	-	100	3,556
FOOD AND DRUG ADMINISTRATION	47,357	29,386	3,792	-	10,376	-	1,074	-	1,950	819
HEALTH RESOURCES ADMINISTRATION	28,291	6,550	160	-	11,160	-	9,618	-	803	-
HEALTH SERVICES ADMINISTRATION	10,871	4,225	-	-	2,534	-	1,103	-	808	2,201
NATIONAL INSTITUTE OF EDUCATION	35,800	6,444	2,148	-	9,666	-	13,247	-	4,295	-
NATIONAL INSTITUTES OF HEALTH	2,019,875	401,302	51,588	45,992	1,203,846	7,494	257,582	3,336	33,548	15,187
OFFICE OF EDUCATION	24,374	72	2,286	-	11,442	-	3,574	-	7,000	-
OFFICE OF HUMAN DEVELOPMENT	43,682	3,089	3,122	-	23,374	-	11,300	-	2,797	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	75	-	-	-	-	962	-	-	-
OFFICE OF THE SECRETARY	22,400	1,334	3,181	-	1,720	4,418	-	-	11,747	-
SOCIAL AND REHABILITATION SERVICE	31,200	750	2,655	-	2,227	-	5,000	-	20,568	-
SOCIAL SECURITY ADMINISTRATION	12,200	8,385	2,757	-	1,008	-	-	-	50	-
DEPT OF HOUSING & URBAN DEVELOPMENT	32,300	11,294	9,261	-	2,936	-	8,809	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	289,111	215,645	39,881	400	30,391	-	-	-	1,794	1,000
BONNEVILLE POWER ADMINISTRATION	470	123	347	-	-		-	-	-	-
BUREAU OF LAND MANAGEMENT	1,235	348	-	-	887	-	-	-	-	-
BUREAU OF MINES	76,300	40,800	31,000	-	4,500	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	20	20	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	8,671	3,925	1,961	-	1,281	-	-	-	1,504	-
GEOLOGICAL SURVEY	152,562	144,553	1,927	-	6,082	-	-	-	-	-
NATIONAL PARK SERVICE	11,798	5,396	-	400	5,952	-	-	-	50	-
OFFICE OF THE SECRETARY	2,448	898	300	-	250	-	-	-	-	1,000
OFFICE OF WATER RES AND TECHNOLOGY	16,487	1,912	4,071	-	10,439	-	-	-	65	-
US FISH AND WILDLIFE SERVICE	19,120	17,670	275	-	1,000	-	-	-	175	-
DEPARTMENT OF JUSTICE, TOTAL	26,875	4,690	625	-	6,350	-	11,276	2,250	1,684	-
BUREAU OF PRISONS	1,000	50	-	-	450	-	66	-	434	-
DRUG ENFORCEMENT ADMINISTRATION	600	300	-	-	300	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	175	50	125	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	23,100	4,190	-	-	4,700	-	10,710	2,250	1,250	-
OFFICE OF THE ATTORNEY GENERAL	2,000	100	500	-	900	-	500	-	-	-
DEPARTMENT OF LABOR, TOTAL	21,292	11,449	5,869	-	2,534	100	1,040	-	300	-
BUREAU OF LABOR STATISTICS	787	787	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	5,790	2,718	830	-	1,412	-	530	-	300	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,550	5,550	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	2,965	1,075	1,102	-	500		288	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,300	600	3,700	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,900	719	237	-	622	100	222	-	-	-
DEPARTMENT OF STATE, TOTAL	42,921	7,434	1,866	-	22,847	-	7,747	-	-	3,027
DEPARTMENTAL FUNDS	1,832	240	210	-	847	-	535	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	41,089	7,194	1,656	-	22,000	-	7,212	-	-	3,027

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TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPT OF TRANSPORTATION, TOTAL	36,500	10,654	17,206	-	2,675	20	2,274	144	3,527	-
FEDERAL AVIATION ADMINISTRATION	5,700	1,015	4,177	-	364	-	-	144	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	198	505	-	667	-	457	-	173	-
FEDERAL RAILROAD ADMINISTRATION	6,900	5,350	1,472	-	78	-	-	-	-	-
MATERIALS TRANSPORTATION BUREAU	100	-	100	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	13,700	660	8,675	-	1,200	-	1,605	-	1,560	-
OFFICE OF THE SECRETARY	4,700	1,866	1,092	-	302	-	171	-	1,269	-
US COAST GUARD	2,300	1,050	1,145	-	64	-	41	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	515	40	-	-	20	-	-	525	-
DEPARTMENT OF THE TREASURY, TOTAL	2,037	1,637	-	-	-	-	-	400	-	-
BUREAU OF ALCOHOL TOBACCO & FIREARMS	492	92	-	-	-	-	-	400	-	-
BUREAU OF ENGRAVING AND PRINTING	1,545	1,545	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	331	26	-	-	-	-	305	-	-	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,379	1,379	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	800	24	760	-	6	-	-	-	10	-
CIVIL AERONAUTICS BOARD	496	496	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	1,017	1,017	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	500	-	-	-	-	-	500	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	2,988	989	865	-	95	-	691	-	348	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	972,682	32,849	61,408	119,801	169,568	528,973	36,414	22,781	485	403
ENVIRONMENTAL PROTECTION AGENCY	184,000	84,145	45,000	-	38,000	-	8,500	500	6,000	1,855
FEDERAL COMMUNICATIONS COMMISSION	2,144	1,744	400	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	993	931	-	-	62	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,200	1,200	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	384	89	240	-	-	-	55	-	-	-
INTERSTATE COMMERCE COMMISSION	113	113	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	393	393	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,426,494	850,308	440,396	-	103,000	22,500	6,547	1,710	253	1,780
NATIONAL SCIENCE FOUNDATION	749,271	83,108	20,208	2,861	538,384	55,124	32,372	1,756	8,284	7,174
NUCLEAR REGULATORY COMMISSION	139,100	9,580	6,257	87,654	5,200	19,370	5,310	4,429	150	1,150
OFFICE OF TELECOMMUNICATIONS POLICY	2,680	1,600	484	-	296	-	200	100	-	-
SMALL BUSINESS ADMINISTRATION	1,100	100	1,000	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	32,135	29,301	-	-	1,779	-	1,055	-	-	-
TENNESSEE VALLEY AUTHORITY	27,535	7,794	-	-	200	-	19,541	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,350	144	650	258	100	-	426	772	-	-
US INFORMATION AGENCY	120	120	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	2,800	2,800	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	96,782	96,782	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-13. FEDERAL OBLIGATIONS FOR RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1976	ESTIMATES	
		1977	1978
TOTAL, ALL FIELDS	7,873,304	8,853,265	9,490,463
LIFE SCIENCES, TOTAL	2,646,087	2,983,358	3,105,463
BIOLOGICAL	1,378,774	1,569,996	1,651,908
CLINICAL MEDICAL	774,101	869,351	891,005
OTHER MEDICAL SCIENCES	412,177	462,038	474,883
LIFE SCIENCES, NEC	81,035	81,973	87,667
PSYCHOLOGY, TOTAL	140,322	164,132	177,963
BIOLOGICAL ASPECTS	53,439	58,856	60,248
SOCIAL ASPECTS	73,865	87,982	99,810
PSYCHOLOGICAL SCIENCES, NEC	13,018	17,294	17,905
PHYSICAL SCIENCES, TOTAL	1,220,577	1,405,580	1,569,941
ASTRONOMY	163,311	183,153	223,542
CHEMISTRY	324,576	370,754	391,341
PHYSICS	678,843	774,467	855,317
PHYSICAL SCIENCES, NEC	53,847	77,206	99,741
ENVIRONMENTAL SCIENCES, TOTAL	770,328	852,337	924,983
ATMOSPHERIC SCIENCES	290,756	316,077	324,856
GEOLOGICAL SCIENCES	230,875	258,606	295,637
OCEANOGRAPHY	160,152	183,867	193,135
ENVIRONMENTAL SCIENCES, NEC	88,545	93,787	111,355
MATHEMATICS & COMPUTER SCIENCES, TOTAL	152,855	165,618	183,820
MATHEMATICS	75,980	86,465	94,169
COMPUTER SCIENCES	71,958	72,836	82,540
MATHEMATICS & COMPUTER SCIENCES, NEC	4,917	6,317	7,111
ENGINEERING, TOTAL	2,377,983	2,601,590	2,810,793
AERONAUTICAL	781,883	811,536	848,216
ASTRONAUTICAL	246,063	256,557	280,096
CHEMICAL	90,877	110,500	115,228
CIVIL	112,414	135,990	132,861
ELECTRICAL	262,182	306,457	342,289
MECHANICAL	124,906	136,623	149,793
METALLURGY & MATERIALS	295,803	313,267	366,260
ENGINEERING, NEC	463,855	530,660	576,050
SOCIAL SCIENCES, TOTAL	389,985	456,543	482,158
ANTHROPOLOGY	13,579	14,358	17,496
ECONOMICS	138,022	151,445	162,850
POLITICAL SCIENCE	7,239	7,388	7,982
SOCIOLOGY	53,509	65,824	69,059
SOCIAL SCIENCES, NEC	177,636	217,528	224,771
OTHER SCIENCES, NEC	175,167	224,107	235,342

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COMPUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,873,304	2,646,087	140,322	1,220,577	770,328	152,855	2,377,983	389,985	175,167
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	442,224	279,279	75	53,126	12,497	3,807	37,094	56,338	8
AGRICULTURAL RESEARCH SERVICE	227,584	154,553	-	42,898	3,060	556	24,414	1,703	-
COOPERATIVE STATE RESEARCH SERVICE	113,389	77,914	-	5,669	709	-	3,887	25,210	-
ECONOMIC RESEARCH SERVICE	23,962	-	-	-	-	-	-	23,962	-
FARMER COOPERATIVE SERVICE	1,205	-	-	-	-	-	-	1,205	-
FOREST SERVICE	74,503	46,812	75	4,559	8,728	1,278	8,793	4,258	-
NATIONAL AGRICULTURAL LIBRARY	8	-	-	-	-	-	-	-	8
STATISTICAL REPORTING SERVICE	1,573	-	-	-	-	1,573	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	155,713	41,920	209	22,811	56,872	3,900	18,117	8,634	3,250
BUREAU OF THE CENSUS	2,137	-	209	-	-	1,403	-	470	55
ECONOMIC DEVELOPMENT ADMINISTRATION	2,063	-	-	-	-	-	-	2,063	-
MARITIME ADMINISTRATION	4,976	-	-	-	-	-	4,595	381	-
NATIONAL BUREAU OF STANDARDS	37,530	-	-	22,751	-	2,497	12,282	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	3,195	-	-	-	-	-	-	-	3,195
NATIONAL OCEANIC AND ATMOS ADMIN	104,870	41,920	-	60	56,872	-	703	5,315	-
OFFICE OF MINORITY BUSINESS ENTERP	405	-	-	-	-	-	-	405	-
OFFICE OF TELECOMMUNICATIONS	350	-	-	-	-	-	350	-	-
PATENT & TRADEMARK OFFICE	187	-	-	-	-	-	187	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,787,759	120,082	43,516	210,581	148,715	73,680	1,123,846	5,067	62,272
DEPARTMENT OF THE ARMY	306,425	63,400	14,219	57,710	17,439	7,048	141,900	2,079	2,630
DEPARTMENT OF THE NAVY	314,900	17,750	5,355	71,740	47,450	30,765	140,646	1,194	-
DEPARTMENT OF THE AIR FORCE	821,600	34,751	18,074	27,692	39,691	8,148	693,244	-	-
DEFENSE AGENCIES	344,134	4,091	5,833	53,318	44,135	27,657	147,840	1,735	59,525
DEPARTMENTWIDE FUNDS	700	90	35	121	-	62	216	59	117
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,162,938	1,797,282	63,698	44,620	-	20,052	20,828	158,113	58,345
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	136,617	69,387	44,212	93	-	1,112	-	20,684	1,129
CENTER FOR DISEASE CONTROL	49,596	49,596	-	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	37,077	37,077	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	30,971	-	-	-	-	-	-	28,471	2,500
HEALTH SERVICES ADMINISTRATION	9,509	9,509	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	10,798	-	-	-	-	-	-	10,798	-
NATIONAL INSTITUTES OF HEALTH	1,779,897	1,619,383	13,233	44,527	-	18,940	20,828	8,270	54,716
OFFICE OF EDUCATION	21,428	-	-	-	-	-	-	21,428	-
OFFICE OF HUMAN DEVELOPMENT	34,624	12,330	6,253	-	-	-	-	16,041	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	-	-	-	-	-	-	1,037	-
OFFICE OF THE SECRETARY	23,704	-	-	-	-	-	-	23,704	-
SOCIAL AND REHABILITATION SERVICE	18,580	-	-	-	-	-	-	18,580	-
SOCIAL SECURITY ADMINISTRATION	9,100	-	-	-	-	-	-	9,100	-
DEPT OF HOUSING & URBAN DEVELOPMENT	36,945	-	-	-	-	-	4,645	32,300	-
DEPARTMENT OF THE INTERIOR, TOTAL	240,502	22,138	243	11,494	117,995	3,156	78,319	5,930	1,225
BONNEVILLE POWER ADMINISTRATION	462	-	-	-	-	-	462	-	-
BUREAU OF LAND MANAGEMENT	653	643	-	-	-	-	-	10	-
BUREAU OF MINES	73,300	-	-	1,780	2,400	1,600	67,520	-	-
BUREAU OF OUTDOOR RECREATION	20	-	-	-	-	-	-	20	-
BUREAU OF RECLAMATION	7,925	437	-	-	4,900	-	2,381	207	-
GEOLOGICAL SURVEY	115,154	-	-	9,010	106,533	1,493	2,118	-	-
NATIONAL PARK SERVICE	9,272	3,999	-	31	628	-	-	4,046	568
OFFICE OF THE SECRETARY	1,045	-	-	-	80	-	965	-	-
OFFICE OF WATER RES AND TECHNOLOGY	13,951	2,339	243	673	3,454	65	4,873	1,647	657
US FISH AND WILDLIFE SERVICE	14,720	14,720	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	18,317	1,413	1,156	286	-	-	82	15,329	51
DRUG ENFORCEMENT ADMINISTRATION	500	500	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	133	-	-	-	-	-	82	-	51
LAW ENFORCEMENT ASSISTANCE ADMIN	17,684	913	1,156	286	-	-	-	15,329	-
DEPARTMENT OF LABOR, TOTAL	18,000	-	239	-	-	-	-	17,761	-
BUREAU OF LABOR STATISTICS	776	-	-	-	-	-	-	776	-
EMPLOYMENT AND TRAINING ADMIN	7,544	-	239	-	-	-	-	7,305	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,268	-	-	-	-	-	-	4,268	-
LABOR-MANAGEMENT SERVICES ADMIN	731	-	-	-	-	-	-	731	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	2,900	-	-	-	-	-	-	2,900	-
OFFICE OF THE SECRETARY	1,781	-	-	-	-	-	-	1,781	-
DEPARTMENT OF STATE, TOTAL	25,128	13,293	-	-	2,682	-	525	8,219	409
DEPARTMENTAL FUNDS	1,121	-	-	-	-	-	-	1,121	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	24,007	13,293	-	-	2,682	-	525	7,098	409

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TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COMPUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPT OF TRANSPORTATION, TOTAL	31,100	769	21	24	332	766	25,751	3,437	-
FEDERAL AVIATION ADMINISTRATION	3,600	-	-	-	-	-	3,600	-	-
FEDERAL HIGHWAY ADMINISTRATION	1,900	-	-	-	-	-	1,900	-	-
FEDERAL RAILROAD ADMINISTRATION	8,600	-	-	-	-	-	7,050	1,550	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,900	769	-	-	-	469	8,583	79	-
OFFICE OF THE SECRETARY	3,900	-	21	18	200	-	2,727	934	-
US COAST GUARD	2,600	-	-	6	132	297	1,291	874	-
URBAN MASS TRANSPORTATION ADMIN	600	-	-	-	-	-	600	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,474	-	-	1,002	-	-	472	-	-
BUREAU OF ENGRAVING AND PRINTING	1,474	-	-	1,002	-	-	472	-	-
OTHER AGENCIES									
ACTION	75	-	-	-	-	-	-	75	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,026	-	-	-	-	-	-	1,026	-
APPALACHIAN REGIONAL COMMISSION	719	-	-	-	-	-	-	719	-
CIVIL AERONAUTICS BOARD	445	-	-	-	-	-	-	445	-
CIVIL SERVICE COMMISSION	1,127	-	1,127	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,477	2,490	-	-	-	-	822	165	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	746,499	102,926	-	475,441	75,174	5,952	84,697	2,309	-
ENVIRONMENTAL PROTECTION AGENCY	155,395	51,280	-	49,726	4,662	2,330	45,497	1,900	-
FEDERAL COMMUNICATIONS COMMISSION	1,534	-	-	-	-	-	921	613	-
FEDERAL ENERGY ADMINISTRATION	1,048	-	-	-	-	-	119	929	-
FEDERAL HOME LOAN BANK BOARD	782	-	-	-	-	-	-	782	-
FEDERAL TRADE COMMISSION	850	-	-	-	-	-	-	850	-
GENERAL SERVICES ADMINISTRATION	359	-	-	-	-	-	296	-	63
INTERSTATE COMMERCE COMMISSION	123	-	-	-	-	88	-	35	-
LIBRARY OF CONGRESS	427	-	-	-	-	-	-	-	427
NATIONAL AERONAUTICS & SPACE ADMIN	1,222,841	25,227	10,662	197,054	219,039	4,078	755,490	1,783	9,508
NATIONAL SCIENCE FOUNDATION	555,776	104,352	8,249	148,044	130,078	34,691	77,418	56,321	36,623
NUCLEAR REGULATORY COMMISSION	88,432	-	-	-	-	-	88,432	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	1,896	113	-	30	-	-	1,197	556	-
SMALL BUSINESS ADMINISTRATION	52	-	-	-	-	-	-	52	-
SMITHSONIAN INSTITUTION	25,735	11,031	-	4,408	2,207	-	-	8,089	-
TENNESSEE VALLEY AUTHORITY	16,466	1,554	-	1,754	-	-	13,057	101	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,394	-	-	176	75	353	259	531	-
US INFORMATION AGENCY	99	-	-	-	-	-	99	-	-
US INTERNATIONAL TRADE COMMISSION	1,500	-	-	-	-	-	-	1,500	-
VETERANS ADMINISTRATION	85,127	70,938	11,127	-	-	-	-	76	2,986

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COMPUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	8,853,265	2,983,358	164,132	1,405,580	852,337	165,618	2,601,590	456,543	224,107
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	501,338	317,244	84	60,445	14,151	4,318	42,180	62,916	-
AGRICULTURAL RESEARCH SERVICE	255,419	176,172	-	48,899	3,488	1,090	27,829	1,941	-
COOPERATIVE STATE RESEARCH SERVICE	128,695	88,431	-	6,435	804	-	4,411	28,614	-
ECONOMIC RESEARCH SERVICE	26,200	-	-	-	-	-	-	26,200	-
FARMER COOPERATIVE SERVICE	1,335	-	-	-	-	-	-	1,335	-
FOREST SERVICE	83,889	52,641	84	5,111	9,859	1,428	9,940	4,826	-
STATISTICAL REPORTING SERVICE	1,800	-	-	-	-	1,800	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	174,633	50,147	220	26,111	59,948	4,307	19,587	9,649	4,664
BUREAU OF THE CENSUS	2,292	-	220	-	-	1,472	-	550	50
ECONOMIC DEVELOPMENT ADMINISTRATION	2,066	-	-	-	-	-	-	2,066	-
MARITIME ADMINISTRATION	4,469	-	-	-	-	-	4,210	259	-
NATIONAL BUREAU OF STANDARDS	42,666	-	-	25,859	-	2,835	13,972	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	4,614	-	-	-	-	-	-	-	4,614
NATIONAL OCEANIC AND ATMOS ADMIN	117,501	50,147	-	252	59,948	-	780	6,374	-
OFFICE OF MINORITY BUSINESS ENTERP	400	-	-	-	-	-	-	400	-
OFFICE OF TELECOMMUNICATIONS	402	-	-	-	-	-	402	-	-
PATENT & TRADEMARK OFFICE	223	-	-	-	-	-	223	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,951,701	140,444	54,907	239,397	161,129	75,601	1,187,661	6,054	86,508
DEPARTMENT OF THE ARMY	375,310	77,806	20,321	72,148	17,449	8,868	174,428	4,290	-
DEPARTMENT OF THE NAVY	354,800	22,051	8,993	84,680	57,128	34,703	145,893	1,352	-
DEPARTMENT OF THE AIR FORCE	817,600	34,430	17,961	29,145	41,503	8,524	686,037	-	-
DEFENSE AGENCIES	403,091	6,041	7,588	53,268	45,049	23,427	181,025	335	86,358
DEPARTMENTWIDE FUNDS	900	116	44	156	-	79	278	77	150
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,430,054	2,000,965	72,491	50,387	-	22,133	23,003	193,846	67,229
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	152,114	77,670	48,814	106	-	1,268	-	21,898	2,358
CENTER FOR DISEASE CONTROL	60,440	60,440	-	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	42,828	42,828	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	32,994	-	-	-	-	-	-	27,994	5,000
HEALTH SERVICES ADMINISTRATION	13,493	13,493	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	24,900	-	-	-	-	-	-	24,900	-
NATIONAL INSTITUTES OF HEALTH	1,965,828	1,787,865	14,929	50,281	-	20,865	23,003	9,014	59,871
OFFICE OF EDUCATION	27,900	-	-	-	-	-	-	27,900	-
OFFICE OF HUMAN DEVELOPMENT	49,595	18,669	8,748	-	-	-	-	22,178	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	-	-	-	-	-	-	1,037	-
OFFICE OF THE SECRETARY	20,000	-	-	-	-	-	-	20,000	-
SOCIAL AND REHABILITATION SERVICE	29,325	-	-	-	-	-	-	29,325	-
SOCIAL SECURITY ADMINISTRATION	9,600	-	-	-	-	-	-	9,600	-
DEPT OF HOUSING & URBAN DEVELOPMENT	34,100	-	-	-	-	-	3,855	30,245	-
DEPARTMENT OF THE INTERIOR, TOTAL	265,017	24,299	210	12,374	131,221	3,450	86,575	5,759	1,129
BONNEVILLE POWER ADMINISTRATION	220	-	-	-	-	-	220	-	-
BUREAU OF LAND MANAGEMENT	820	758	-	-	-	-	-	62	-
BUREAU OF MINES	79,700	-	-	1,880	2,400	1,600	73,820	-	-
BUREAU OF OUTDOOR RECREATION	20	-	-	-	-	-	-	20	-
BUREAU OF RECLAMATION	9,958	384	-	-	6,696	-	2,721	157	-
GEOLOGICAL SURVEY	130,842	-	-	9,888	117,057	1,767	2,130	-	-
NATIONAL PARK SERVICE	9,898	4,281	-	31	837	-	-	4,145	604
OFFICE OF THE SECRETARY	4,922	-	-	-	1,235	-	3,687	-	-
OFFICE OF WATER RES AND TECHNOLOGY	11,757	1,996	210	575	2,996	83	3,997	1,375	525
US FISH AND WILDLIFE SERVICE	16,880	16,880	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	26,197	749	1,799	-	135	-	496	22,864	154
BUREAU OF PRISONS	297	-	-	-	-	-	-	297	-
DRUG ENFORCEMENT ADMINISTRATION	500	250	-	-	-	-	250	-	-
IMMIGRATION & NATURALIZATION SERVICE	400	-	-	-	-	-	246	-	154
LAW ENFORCEMENT ASSISTANCE ADMIN	25,000	499	1,799	-	135	-	-	22,567	-
DEPARTMENT OF LABOR, TOTAL	21,634	-	215	-	-	-	-	21,419	-
BUREAU OF LABOR STATISTICS	896	-	-	-	-	-	-	896	-
EMPLOYMENT AND TRAINING ADMIN	6,702	-	215	-	-	-	-	6,487	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,535	-	-	-	-	-	-	5,535	-
LABOR-MANAGEMENT SERVICES ADMIN	2,889	-	-	-	-	-	-	2,889	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3,300	-	-	-	-	-	-	3,300	-
OFFICE OF THE SECRETARY	2,312	-	-	-	-	-	-	2,312	-
DEPARTMENT OF STATE, TOTAL	32,311	17,707	-	-	5,476	-	500	8,478	150
DEPARTMENTAL FUNDS	1,332	-	-	-	-	-	-	1,332	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	30,979	17,707	-	-	5,476	-	500	7,146	150

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TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPT OF TRANSPORTATION, TOTAL	46,000	1,631	27	31	423	1,371	38,454	4,063	-
FEDERAL AVIATION ADMINISTRATION	5,100	-	-	-	-	-	5,100	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	-	-	-	-	-	2,000	-	-
FEDERAL RAILROAD ADMINISTRATION	8,800	-	-	-	-	-	7,215	1,585	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	21,000	1,631	-	-	-	994	18,205	170	-
OFFICE OF THE SECRETARY	5,000	-	27	23	256	-	3,496	1,198	-
US COAST GUARD	3,300	-	-	8	167	377	1,638	1,110	-
URBAN MASS TRANSPORTATION ADMIN	800	-	-	-	-	-	800	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,903	-	-	1,080	-	-	463	-	360
BUREAU OF ALCOHOL TOBACCO & FIREARMS	440	-	-	80	-	-	-	-	360
BUREAU OF ENGRAVING AND PRINTING	1,463	-	-	1,000	-	-	463	-	-
OTHER AGENCIES									
ACTION	94	-	-	-	-	-	-	94	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,172	-	-	-	-	-	-	1,172	-
APPALACHIAN REGIONAL COMMISSION	800	-	-	-	-	-	-	800	-
CIVIL AERONAUTICS BOARD	496	-	-	-	-	-	-	496	-
CIVIL SERVICE COMMISSION	1,017	-	1,017	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,400	-	-	-	-	-	-	1,400	-
CONSUMER PRODUCT SAFETY COMMISSION	3,302	2,107	-	-	-	-	1,075	120	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	879,703	112,862	-	556,280	87,262	6,839	112,740	3,720	-
ENVIRONMENTAL PROTECTION AGENCY	214,600	70,818	-	68,672	6,438	3,219	62,878	2,575	-
FEDERAL COMMUNICATIONS COMMISSION	2,060	-	-	-	-	-	1,141	919	-
FEDERAL HOME LOAN BANK BOARD	995	-	-	-	-	-	-	995	-
FEDERAL TRADE COMMISSION	1,110	-	-	-	-	-	-	1,110	-
GENERAL SERVICES ADMINISTRATION	161	-	-	-	-	-	96	-	65
INTERSTATE COMMERCE COMMISSION	618	-	-	-	-	45	-	573	-
LIBRARY OF CONGRESS	375	-	-	-	-	-	-	-	375
NATIONAL AERONAUTICS & SPACE ADMIN	1,310,257	28,784	11,371	215,178	237,396	4,101	799,216	2,031	12,180
NATIONAL SCIENCE FOUNDATION	674,482	120,665	9,989	168,234	146,262	39,675	81,916	59,829	47,912
NUCLEAR REGULATORY COMMISSION	113,888	-	-	-	-	-	113,888	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	2,299	108	-	-	-	-	1,765	390	36
SMALL BUSINESS ADMINISTRATION	1,027	-	-	-	-	-	-	1,027	-
SMITHSONIAN INSTITUTION	30,569	12,977	-	5,125	2,377	-	-	10,090	-
TENNESSEE VALLEY AUTHORITY	27,478	1,707	-	2,070	-	-	23,557	144	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,165	-	-	196	119	559	410	881	-
US INFORMATION AGENCY	134	-	-	-	-	-	134	-	-
US INTERNATIONAL TRADE COMMISSION	2,800	-	-	-	-	-	-	2,800	-
VETERANS ADMINISTRATION	95,375	80,144	11,802	-	-	-	-	84	3,345

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	9,490,463	3,105,463	177,963	1,569,941	924,983	183,820	2,810,793	482,158	235,342
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	547,870	347,049	90	67,028	15,239	4,545	46,400	67,519	-
AGRICULTURAL RESEARCH SERVICE	290,507	197,284	-	54,759	3,907	1,220	31,164	2,173	-
COOPERATIVE STATE RESEARCH SERVICE	136,361	93,699	-	6,818	852	-	4,674	30,318	-
ECONOMIC RESEARCH SERVICE	28,331	-	-	-	-	-	-	28,331	-
FARMER COOPERATIVE SERVICE	1,574	-	-	-	-	-	-	1,574	-
FOREST SERVICE	85,297	56,066	90	5,451	10,480	1,525	10,562	5,123	-
STATISTICAL REPORTING SERVICE	1,800	-	-	-	-	1,800	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	174,876	52,985	230	25,769	59,325	4,400	18,092	9,361	4,714
BUREAU OF THE CENSUS	2,395	-	230	-	-	1,565	-	550	50
ECONOMIC DEVELOPMENT ADMINISTRATION	2,000	-	-	-	-	-	-	2,000	-
MARITIME ADMINISTRATION	4,095	-	-	-	-	-	3,859	236	-
NATIONAL BUREAU OF STANDARDS	40,670	-	-	24,907	-	2,835	12,928	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	4,664	-	-	-	-	-	-	-	4,664
NATIONAL OCEANIC AND ATMOS ADMIN	120,099	52,985	-	862	59,325	-	680	6,247	-
OFFICE OF MINORITY BUSINESS ENTERP	328	-	-	-	-	-	-	328	-
OFFICE OF TELECOMMUNICATIONS	402	-	-	-	-	-	402	-	-
PATENT & TRADEMARK OFFICE	223	-	-	-	-	-	223	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,178,497	150,245	68,019	282,872	181,152	88,065	1,304,659	4,991	98,494
DEPARTMENT OF THE ARMY	461,391	84,848	26,845	95,793	21,698	15,449	210,295	3,121	3,342
DEPARTMENT OF THE NAVY	402,300	23,209	13,301	103,109	67,092	37,666	156,392	1,531	-
DEPARTMENT OF THE AIR FORCE	867,000	36,510	19,046	30,906	44,011	9,039	727,488	-	-
DEFENSE AGENCIES	446,106	5,458	8,745	52,769	48,351	25,761	209,959	195	94,868
DEPARTMENTWIDE FUNDS	1,700	220	82	295	-	150	525	144	284
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,488,397	2,048,149	72,633	52,082	-	22,671	23,673	204,910	64,279
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	151,815	77,981	48,399	103	-	1,228	-	21,325	2,779
CENTER FOR DISEASE CONTROL	59,455	59,455	-	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	47,397	47,397	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	28,291	-	-	-	-	-	-	28,291	-
HEALTH SERVICES ADMINISTRATION	10,871	10,871	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	35,800	-	-	-	-	-	-	35,800	-
NATIONAL INSTITUTES OF HEALTH	2,019,875	1,836,562	15,463	51,979	-	21,443	23,673	9,255	61,500
OFFICE OF EDUCATION	24,374	-	-	-	-	-	-	24,374	-
OFFICE OF HUMAN DEVELOPMENT	43,682	15,883	8,771	-	-	-	-	19,028	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	-	-	-	-	-	-	1,037	-
OFFICE OF THE SECRETARY	22,400	-	-	-	-	-	-	22,400	-
SOCIAL AND REHABILITATION SERVICE	31,200	-	-	-	-	-	-	31,200	-
SOCIAL SECURITY ADMINISTRATION	12,200	-	-	-	-	-	-	12,200	-
DEPT OF HOUSING & URBAN DEVELOPMENT	32,300	-	-	-	-	-	3,900	28,400	-
DEPARTMENT OF THE INTERIOR, TOTAL	285,111	28,407	346	13,147	152,294	3,730	82,497	7,246	1,444
BONNEVILLE POWER ADMINISTRATION	470	-	-	-	-	-	470	-	-
BUREAU OF LAND MANAGEMENT	1,235	1,162	-	-	-	-	-	73	-
BUREAU OF MINES	76,300	-	-	1,880	2,400	1,600	70,420	-	-
BUREAU OF OUTDOOR RECREATION	20	-	-	-	-	-	-	20	-
BUREAU OF RECLAMATION	8,671	263	-	-	5,925	-	2,329	154	-
GEOLOGICAL SURVEY	152,562	-	-	10,492	137,950	1,995	2,125	-	-
NATIONAL PARK SERVICE	11,798	5,008	31	-	979	-	-	5,066	714
OFFICE OF THE SECRETARY	2,448	-	-	-	1,000	15	1,433	-	-
OFFICE OF WATER RES AND TECHNOLOGY	16,487	2,854	315	775	4,040	120	5,720	1,933	730
US FISH AND WILDLIFE SERVICE	19,120	19,120	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	26,875	200	1,000	-	200	-	525	24,900	50
BUREAU OF PRISONS	1,000	-	-	-	-	-	-	1,000	-
DRUG ENFORCEMENT ADMINISTRATION	600	200	-	-	-	-	400	-	-
IMMIGRATION & NATURALIZATION SERVICE	175	-	-	-	-	-	125	-	50
LAW ENFORCEMENT ASSISTANCE ADMIN	23,100	-	1,000	-	200	-	-	21,900	-
OFFICE OF THE ATTORNEY GENERAL	2,000	-	-	-	-	-	-	2,000	-
DEPARTMENT OF LABOR, TOTAL	21,292	-	185	-	-	100	-	21,007	-
BUREAU OF LABOR STATISTICS	787	-	-	-	-	-	-	787	-
EMPLOYMENT AND TRAINING ADMIN	5,790	-	185	-	-	-	-	5,605	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,550	-	-	-	-	-	-	5,550	-
LABOR-MANAGEMENT SERVICES ADMIN	2,965	-	-	-	-	-	-	2,965	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,300	-	-	-	-	100	-	4,200	-
OFFICE OF THE SECRETARY	1,900	-	-	-	-	-	-	1,900	-
DEPARTMENT OF STATE, TOTAL	42,921	27,258	-	-	1,850	-	200	13,458	155
DEPARTMENTAL FUNDS	1,832	-	-	-	-	-	-	1,832	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	41,089	27,258	-	-	1,850	-	200	11,626	155

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TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPT OF TRANSPORTATION, TOTAL	36,500	1,064	25	26	357	912	30,862	3,254	-
FEDERAL AVIATION ADMINISTRATION	5,700	-	-	-	-	-	5,700	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	-	-	-	-	-	2,000	-	-
FEDERAL RAILROAD ADMINISTRATION	6,900	-	-	-	-	-	5,655	1,245	-
MATERIALS TRANSPORTATION BUREAU	100	-	-	-	-	-	100	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	13,700	1,064	-	-	-	649	11,878	109	-
OFFICE OF THE SECRETARY	4,700	-	25	21	240	-	3,287	1,127	-
US COAST GUARD	2,300	-	-	5	117	263	1,142	773	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	-	-	1,100	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,037	-	-	1,129	-	-	496	-	412
BUREAU OF ALCOHOL TOBACCO & FIREARMS	492	-	-	80	-	-	-	-	412
BUREAU OF ENGRAVING AND PRINTING	1,545	-	-	1,049	-	-	496	-	-
OTHER AGENCIES									
ACTION	331	-	-	-	-	-	-	331	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,379	-	-	-	-	-	-	1,379	-
APPALACHIAN REGIONAL COMMISSION	800	-	-	-	-	-	-	800	-
CIVIL AERONAUTICS BOARD	496	-	-	-	-	-	-	496	-
CIVIL SERVICE COMMISSION	1,017	-	1,017	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	500	-	-	-	-	-	-	500	-
CONSUMER PRODUCT SAFETY COMMISSION	2,988	2,059	-	-	-	-	869	60	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	972,682	118,722	-	613,529	100,458	7,420	126,366	3,000	3,187
ENVIRONMENTAL PROTECTION AGENCY	184,000	60,720	-	58,880	5,520	2,760	53,912	2,208	-
FEDERAL COMMUNICATIONS COMMISSION	2,144	-	-	-	-	-	1,214	930	-
FEDERAL HOME LOAN BANK BOARD	993	-	-	-	-	-	-	993	-
FEDERAL TRADE COMMISSION	1,200	-	-	-	-	-	-	1,200	-
GENERAL SERVICES ADMINISTRATION	384	-	-	-	-	-	319	-	65
INTERSTATE COMMERCE COMMISSION	113	-	-	-	-	113	-	-	-
LIBRARY OF CONGRESS	393	-	-	-	-	-	-	-	393
NATIONAL AERONAUTICS & SPACE ADMIN	1,426,494	35,832	10,739	254,932	244,550	5,224	861,955	1,878	11,384
NATIONAL SCIENCE FOUNDATION	749,271	136,394	11,609	192,278	161,512	43,273	91,339	65,501	47,365
NUCLEAR REGULATORY COMMISSION	139,100	-	-	-	-	-	139,100	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	2,680	150	100	-	-	-	1,069	1,361	-
SMALL BUSINESS ADMINISTRATION	1,100	-	-	-	-	-	-	1,100	-
SMITHSONIAN INSTITUTION	32,135	12,897	-	5,502	2,397	-	-	11,339	-
TENNESSEE VALLEY AUTHORITY	27,535	2,010	-	2,554	-	-	22,781	190	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,350	-	-	213	129	607	445	956	-
US INFORMATION AGENCY	120	-	-	-	-	-	120	-	-
US INTERNATIONAL TRADE COMMISSION	2,800	-	-	-	-	-	-	2,800	-
VETERANS ADMINISTRATION	96,782	81,322	11,970	-	-	-	-	90	3,400

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-17. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	140,322	53,439	73,865	13,018	1,220,577	163,311	324,576	678,843	53,847
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	75	-	75	-	53,126	-	44,932	8,194	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	42,898	-	36,828	6,070	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	5,669	-	5,669	-	-
FOREST SERVICE	75	-	75	-	4,559	-	2,435	2,124	-
DEPARTMENT OF COMMERCE, TOTAL	209	-	209	-	22,811	666	7,137	15,008	-
BUREAU OF THE CENSUS	209	-	209	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	22,751	666	7,077	15,008	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	60	-	60	-	-
DEPARTMENT OF DEFENSE, TOTAL	43,516	2,968	37,673	2,875	210,581	9,877	46,920	113,878	39,906
DEPARTMENT OF THE ARMY	14,219	170	13,121	928	57,710	130	25,611	12,572	19,397
DEPARTMENT OF THE NAVY	5,355	250	5,105	-	71,740	4,232	11,063	56,445	-
DEPARTMENT OF THE AIR FORCE	18,074	970	17,104	-	27,692	5,515	9,297	12,880	-
DEFENSE AGENCIES	5,833	1,556	2,330	1,947	53,318	-	949	31,860	20,509
DEPARTMENTWIDE FUNDS	35	22	13	-	121	-	-	121	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	63,698	36,214	27,484	-	44,620	-	43,127	1,493	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	44,212	27,140	17,072	-	93	-	93	-	-
NATIONAL INSTITUTES OF HEALTH	13,233	9,074	4,159	-	44,527	-	43,034	1,493	-
OFFICE OF HUMAN DEVELOPMENT	6,253	-	6,253	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	243	-	243	-	11,494	31	9,721	1,742	-
BUREAU OF MINES	-	-	-	-	1,780	-	1,660	120	-
GEOLOGICAL SURVEY	-	-	-	-	9,010	-	7,517	1,493	-
NATIONAL PARK SERVICE	-	-	-	-	31	31	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	243	-	243	-	673	-	544	129	-
DEPARTMENT OF JUSTICE, TOTAL	1,156	-	1,156	-	286	-	-	-	286
LAW ENFORCEMENT ASSISTANCE ADMIN	1,156	-	1,156	-	286	-	-	-	286
DEPARTMENT OF LABOR, TOTAL	239	-	239	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	239	-	239	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	21	-	21	-	24	-	24	-	-
OFFICE OF THE SECRETARY	21	-	21	-	18	-	18	-	-
US COAST GUARD	-	-	-	-	6	-	6	-	-
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	1,002	-	221	140	641
BUREAU OF ENGRAVING AND PRINTING	-	-	-	-	1,002	-	221	140	641
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	1,127	-	1,127	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	475,441	-	76,485	394,237	4,719
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	49,726	-	45,747	3,979	-
NATIONAL AERONAUTICS & SPACE ADMIN	10,662	-	519	10,143	197,054	116,575	5,252	66,932	8,295
NATIONAL SCIENCE FOUNDATION	8,249	5,697	2,552	-	148,044	31,754	43,080	73,210	-
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	30	-	-	30	-
SMITHSONIAN INSTITUTION	-	-	-	-	4,408	4,408	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,754	-	1,754	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	176	-	176	-	-
VETERANS ADMINISTRATION	11,127	8,560	2,567	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-18. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	164,132	58,856	87,982	17,294	1,405,580	183,153	370,754	774,467	77,206
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	84	-	84	-	60,445	-	51,136	9,309	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	48,899	-	41,979	6,920	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	6,435	-	6,435	-	-
FOREST SERVICE	84	-	84	-	5,111	-	2,722	2,389	-
DEPARTMENT OF COMMERCE, TOTAL	220	-	220	-	26,111	756	8,316	17,039	-
BUREAU OF THE CENSUS	220	-	220	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	25,859	756	8,064	17,039	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	252	-	252	-	-
DEPARTMENT OF DEFENSE, TOTAL	54,907	2,396	46,638	5,873	239,397	8,640	53,211	123,125	54,421
DEPARTMENT OF THE ARMY	20,321	325	18,820	1,176	72,148	188	29,419	16,749	25,792
DEPARTMENT OF THE NAVY	8,993	-	8,993	-	84,680	3,914	11,874	68,027	865
DEPARTMENT OF THE AIR FORCE	17,961	1,048	16,913	-	29,145	4,538	11,222	13,385	-
DEFENSE AGENCIES	7,588	995	1,896	4,697	53,268	-	696	24,808	27,764
DEPARTMENTWIDE FUNDS	44	28	16	-	156	-	-	156	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	72,491	40,398	32,093	-	50,387	-	48,797	1,590	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	48,814	30,150	18,664	-	106	-	106	-	-
NATIONAL INSTITUTES OF HEALTH	14,929	10,248	4,681	-	50,281	-	48,691	1,590	-
OFFICE OF HUMAN DEVELOPMENT	8,748	-	8,748	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	210	-	210	-	12,374	-	10,473	1,901	-
BUREAU OF MINES	-	-	-	-	1,880	-	1,760	120	-
GEOLOGICAL SURVEY	-	-	-	-	9,888	-	8,221	1,667	-
NATIONAL PARK SERVICE	-	-	-	-	31	-	31	-	-
OFFICE OF WATER RES AND TECHNOLOGY	210	-	210	-	575	-	461	114	-
DEPARTMENT OF JUSTICE, TOTAL	1,799	-	1,199	600	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	1,799	-	1,199	600	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	215	-	215	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	215	-	215	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	27	-	27	-	31	-	31	-	-
OFFICE OF THE SECRETARY	27	-	27	-	23	-	23	-	-
US COAST GUARD	-	-	-	-	8	-	8	-	-
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	1,080	-	260	180	640
BUREAU OF ALCOHOL TOBACCO & FIREARMS	-	-	-	-	80	-	40	40	-
BUREAU OF ENGRAVING AND PRINTING	-	-	-	-	1,000	-	220	140	640
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	1,017	-	1,017	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	556,280	-	78,632	469,481	8,167
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	68,672	-	63,178	5,494	-
NATIONAL AERONAUTICS & SPACE ADMIN	11,371	-	550	10,821	215,178	132,391	6,364	62,470	13,953
NATIONAL SCIENCE FOUNDATION	9,989	6,982	3,007	-	168,234	36,241	48,090	83,878	25
SMITHSONIAN INSTITUTION	-	-	-	-	5,125	5,125	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,070	-	2,070	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	196	-	196	-	-
VETERANS ADMINISTRATION	11,802	9,080	2,722	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-19. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	177,963	60,248	95,810	17,905	1,569,941	223,542	391,341	855,317	99,741
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	90	-	90	-	67,028	-	56,735	10,293	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	54,759	-	47,010	7,749	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	6,818	-	6,818	-	-
FOREST SERVICE	90	-	90	-	5,451	-	2,907	2,544	-
DEPARTMENT OF COMMERCE, TOTAL	230	-	230	-	25,769	756	8,608	16,405	-
BUREAU OF THE CENSUS	230	-	230	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	24,907	756	7,746	16,405	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	862	-	862	-	-
DEPARTMENT OF DEFENSE, TOTAL	68,019	2,240	58,005	7,774	282,872	9,211	60,813	135,820	77,028
DEPARTMENT OF THE ARMY	26,845	350	25,051	1,444	95,793	-	34,527	18,599	42,667
DEPARTMENT OF THE NAVY	13,301	-	13,301	-	103,109	4,282	14,280	83,597	950
DEPARTMENT OF THE AIR FORCE	19,046	1,120	17,926	-	30,906	4,929	11,936	14,041	-
DEFENSE AGENCIES	8,745	705	1,710	6,330	52,769	-	70	19,288	33,411
DEPARTMENTWIDE FUNDS	82	65	17	-	295	-	-	295	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	72,633	40,531	32,102	-	52,082	-	50,449	1,633	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	48,399	29,917	18,482	-	103	-	103	-	-
NATIONAL INSTITUTES OF HEALTH	15,463	10,614	4,849	-	51,979	-	50,346	1,633	-
OFFICE OF HUMAN DEVELOPMENT	8,771	-	8,771	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	346	31	315	-	13,147	-	11,077	2,070	-
BUREAU OF MINES	-	-	-	-	1,880	-	1,760	120	-
GEOLOGICAL SURVEY	-	-	-	-	10,492	-	8,697	1,795	-
NATIONAL PARK SERVICE	31	31	-	-	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	315	-	315	-	775	-	620	155	-
DEPARTMENT OF JUSTICE, TOTAL	1,000	-	1,000	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	1,000	-	1,000	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	185	-	185	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	185	-	185	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	25	-	25	-	26	-	26	-	-
OFFICE OF THE SECRETARY	25	-	25	-	21	-	21	-	-
US COAST GUARD	-	-	-	-	5	-	5	-	-
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	1,129	-	271	187	671
BUREAU OF ALCOHOL TOBACCO & FIREARMS	-	-	-	-	80	-	40	40	-
BUREAU OF ENGRAVING AND PRINTING	-	-	-	-	1,049	-	231	147	671
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	1,017	-	1,017	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	613,529	-	87,179	519,255	7,095
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	58,880	-	54,170	4,710	-
NATIONAL AERONAUTICS & SPACE ADMIN	10,739	-	608	10,131	254,932	164,336	6,169	69,506	14,921
NATIONAL SCIENCE FOUNDATION	11,609	8,146	3,463	-	192,278	43,737	53,077	95,438	26
OFFICE OF TELECOMMUNICATIONS POLICY	100	100	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	5,502	5,502	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,554	-	2,554	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	213	-	213	-	-
VETERANS ADMINISTRATION	11,970	9,200	2,770	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-20. FEDERAL OBLIGATIONS FOR RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,646,087	1,378,774	774,101	412,177	81,035	770,328	290,756	230,875	160,152	88,545
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	279,279	274,148	5,131	-	-	12,497	5,565	4,981	-	1,951
AGRICULTURAL RESEARCH SERVICE	154,553	154,553	-	-	-	3,060	652	457	-	1,951
COOPERATIVE STATE RESEARCH SERVICE	77,914	72,783	5,131	-	-	709	709	-	-	-
FOREST SERVICE	46,812	46,812	-	-	-	8,728	4,204	4,524	-	-
DEPARTMENT OF COMMERCE, TOTAL	41,920	41,920	-	-	-	56,872	36,865	1,339	18,668	-
NATIONAL OCEANIC AND ATMOS ADMIN	41,920	41,920	-	-	-	56,872	36,865	1,339	18,668	-
DEPARTMENT OF DEFENSE, TOTAL	120,082	18,496	47,188	53,457	941	148,715	73,828	22,065	47,468	5,354
DEPARTMENT OF THE ARMY	63,400	10,202	40,550	12,648	-	17,439	6,414	10,594	294	137
DEPARTMENT OF THE NAVY	17,750	4,308	6,603	6,321	518	47,450	6,160	2,262	35,472	3,556
DEPARTMENT OF THE AIR FORCE	34,751	263	-	34,488	-	39,691	37,645	2,046	-	-
DEFENSE AGENCIES	4,091	3,668	-	-	423	44,135	23,609	7,163	11,702	1,661
DEPARTMENTWIDE FUNDS	90	55	35	-	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,797,282	745,977	678,581	314,364	58,360	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	69,387	46,659	12,819	3,451	6,458	-	-	-	-	-
CENTER FOR DISEASE CONTROL	49,596	-	-	49,596	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	37,077	27,853	-	9,224	-	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	9,509	-	9,159	-	350	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,619,383	659,135	656,603	252,093	51,552	-	-	-	-	-
OFFICE OF HUMAN DEVELOPMENT	12,330	12,330	-	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	22,138	22,062	-	50	26	117,995	4,937	96,385	15,719	954
BUREAU OF LAND MANAGEMENT	643	643	-	-	-	-	-	-	-	-
BUREAU OF MINES	-	-	-	-	-	2,400	-	2,400	-	-
BUREAU OF RECLAMATION	437	437	-	-	-	4,900	4,652	12	236	-
GEOLOGICAL SURVEY	-	-	-	-	-	106,533	-	91,063	15,470	-
NATIONAL PARK SERVICE	3,999	3,999	-	-	-	628	1	375	-	252
OFFICE OF THE SECRETARY	-	-	-	-	-	80	-	-	-	80
OFFICE OF WATER RES AND TECHNOLOGY	2,339	2,263	-	50	26	3,454	284	2,535	13	622
US FISH AND WILDLIFE SERVICE	14,720	14,720	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,413	500	-	913	-	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	500	500	-	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	913	-	-	913	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	13,253	10,942	2,155	196	-	2,682	-	2,652	30	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	13,253	10,942	2,155	196	-	2,682	-	2,652	30	-
DEPT OF TRANSPORTATION, TOTAL	769	-	769	-	-	332	34	-	132	166
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	769	-	769	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	200	34	-	-	166
US COAST GUARD	-	-	-	-	-	132	-	-	132	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,490	1,122	-	1,368	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	102,926	74,978	3,957	4,566	19,425	75,174	14,959	24,586	13,787	21,842
ENVIRONMENTAL PROTECTION AGENCY	51,280	45,639	-	5,641	-	4,662	793	2,191	1,678	-
NATIONAL AERONAUTICS & SPACE ADMIN	25,227	8,676	1,147	14,138	1,266	219,039	102,725	37,507	20,843	57,964
NATIONAL SCIENCE FOUNDATION	104,352	104,205	-	-	147	130,078	50,955	37,576	41,233	314
OFFICE OF TELECOMMUNICATIONS POLICY	113	113	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	11,031	11,031	-	-	-	2,207	84	1,529	594	-
TENNESSEE VALLEY AUTHORITY	1,554	1,554	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	75	11	64	-	-
VETERANS ADMINISTRATION	70,938	17,411	35,173	17,484	870	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-21. FEDERAL OBLIGATIONS FOR RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,983,358	1,569,956	869,351	462,038	81,973	852,337	316,077	258,606	183,867	93,787
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	317,244	311,420	5,824	-	-	14,151	6,296	5,631	-	2,224
AGRICULTURAL RESEARCH SERVICE	176,172	176,172	-	-	-	3,488	743	521	-	2,224
COOPERATIVE STATE RESEARCH SERVICE	88,431	82,607	5,824	-	-	804	804	-	-	-
FOREST SERVICE	52,641	52,641	-	-	-	9,859	4,749	5,110	-	-
DEPARTMENT OF COMMERCE, TOTAL	50,147	50,147	-	-	-	59,948	38,902	1,045	20,001	-
NATIONAL OCEANIC AND ATMOS ADMIN	50,147	50,147	-	-	-	59,948	38,902	1,045	20,001	-
DEPARTMENT OF DEFENSE, TOTAL	140,444	25,233	55,608	58,569	1,034	161,129	75,532	22,870	55,313	7,414
DEPARTMENT OF THE ARMY	77,806	12,691	48,779	16,336	-	17,449	6,949	10,078	288	134
DEPARTMENT OF THE NAVY	22,051	6,705	6,784	8,053	509	57,128	6,694	2,710	43,578	4,146
DEPARTMENT OF THE AIR FORCE	34,430	250	-	34,180	-	41,503	39,517	1,986	-	-
DEFENSE AGENCIES	6,041	5,516	-	-	525	45,049	22,372	8,096	11,447	3,134
DEPARTMENTWIDE FUNDS	116	71	45	-	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,000,965	827,629	759,434	355,341	58,561	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	77,670	52,353	14,297	3,497	7,523	-	-	-	-	-
CENTER FOR DISEASE CONTROL	60,440	-	-	60,440	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	42,828	32,164	-	10,664	-	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	13,493	-	13,143	-	350	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,787,865	743,112	713,325	280,740	50,688	-	-	-	-	-
OFFICE OF HUMAN DEVELOPMENT	18,669	-	18,669	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	24,299	24,226	-	44	29	131,221	6,714	107,409	14,912	2,186
BUREAU OF LAND MANAGEMENT	758	758	-	-	-	-	-	-	-	-
BUREAU OF MINES	-	-	-	-	-	2,400	-	2,400	-	-
BUREAU OF RECLAMATION	384	384	-	-	-	6,696	6,454	5	237	-
GEOLOGICAL SURVEY	-	-	-	-	-	117,057	-	102,398	14,659	-
NATIONAL PARK SERVICE	4,281	4,281	-	-	-	837	10	439	-	388
OFFICE OF THE SECRETARY	-	-	-	-	-	1,235	-	15	-	1,220
OFFICE OF WATER RES AND TECHNOLOGY	1,996	1,923	-	44	29	2,996	250	2,152	16	578
US FISH AND WILDLIFE SERVICE	16,880	16,880	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	749	250	-	499	-	135	-	-	-	135
DRUG ENFORCEMENT ADMINISTRATION	250	250	-	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	499	-	-	499	-	135	-	-	-	135
DEPARTMENT OF STATE, TOTAL	17,707	15,271	1,936	500	-	5,476	-	5,376	100	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	17,707	15,271	1,936	500	-	5,476	-	5,376	100	-
DEPT OF TRANSPORTATION, TOTAL	1,631	-	1,631	-	-	423	43	-	167	213
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,631	-	1,631	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	256	43	-	-	213
US COAST GUARD	-	-	-	-	-	167	-	-	167	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,107	290	-	1,817	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	112,862	83,607	4,164	5,242	19,849	87,262	16,454	29,419	15,732	25,657
ENVIRONMENTAL PROTECTION AGENCY	70,818	63,028	-	7,790	-	6,438	1,094	3,026	2,318	-
NATIONAL AERONAUTICS & SPACE ADMIN	28,784	14,240	1,014	12,486	1,044	237,396	113,622	40,659	27,422	55,693
NATIONAL SCIENCE FOUNDATION	120,665	120,193	-	-	472	146,262	57,299	41,433	47,265	265
OFFICE OF TELECOMMUNICATIONS POLICY	108	108	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	12,977	12,977	-	-	-	2,377	103	1,637	637	-
TENNESSEE VALLEY AUTHORITY	1,707	1,707	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	119	18	101	-	-
VETERANS ADMINISTRATION	80,144	19,670	39,740	19,750	984	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-22. FEDERAL OBLIGATIONS FOR RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	3,105,463	1,651,908	891,005	474,883	87,667	924,983	324,856	295,637	193,135	111,355
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	347,049	340,878	6,171	-	-	15,239	6,733	6,016	-	2,490
AGRICULTURAL RESEARCH SERVICE	197,284	197,284	-	-	-	3,907	833	584	-	2,490
COOPERATIVE STATE RESEARCH SERVICE	93,659	87,528	6,171	-	-	852	852	-	-	-
FOREST SERVICE	56,066	56,066	-	-	-	10,480	5,048	5,432	-	-
DEPARTMENT OF COMMERCE, TOTAL	52,985	52,985	-	-	-	59,325	35,941	1,090	22,294	-
NATIONAL OCEANIC AND ATMOS ADMIN	52,985	52,985	-	-	-	59,325	35,941	1,090	22,294	-
DEPARTMENT OF DEFENSE, TOTAL	150,245	24,290	63,883	61,085	987	181,152	82,270	24,601	65,602	8,679
DEPARTMENT OF THE ARMY	84,848	12,658	56,501	15,689	-	21,698	9,676	11,597	290	135
DEPARTMENT OF THE NAVY	23,209	6,189	7,332	9,151	537	67,092	7,909	3,191	51,317	4,675
DEPARTMENT OF THE AIR FORCE	36,510	265	-	36,245	-	44,011	41,861	2,150	-	-
DEFENSE AGENCIES	5,458	5,008	-	-	450	48,351	22,824	7,663	13,995	3,869
DEPARTMENTWIDE FUNDS	220	170	50	-	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,048,149	851,351	776,251	364,171	56,376	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	77,981	52,560	14,472	3,706	7,243	-	-	-	-	-
CENTER FOR DISEASE CONTROL	59,455	-	-	59,455	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	47,397	35,595	-	11,802	-	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	10,871	-	10,521	-	350	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,836,562	763,196	735,375	289,208	48,783	-	-	-	-	-
OFFICE OF HUMAN DEVELOPMENT	15,883	-	15,883	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	28,407	28,298	-	64	45	152,294	6,045	129,068	14,942	2,239
BUREAU OF LAND MANAGEMENT	1,162	1,162	-	-	-	-	-	-	-	-
BUREAU OF MINES	-	-	-	-	-	2,400	-	2,400	-	-
BUREAU OF RECLAMATION	263	263	-	-	-	5,925	5,700	7	218	-
GEOLOGICAL SURVEY	-	-	-	-	-	137,950	-	123,251	14,699	-
NATIONAL PARK SERVICE	5,008	5,008	-	-	-	979	10	505	-	464
OFFICE OF THE SECRETARY	-	-	-	-	-	1,000	-	-	-	1,000
OFFICE OF WATER RES AND TECHNOLOGY	2,854	2,745	-	64	45	4,040	335	2,905	25	775
US FISH AND WILDLIFE SERVICE	19,120	19,120	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	200	200	-	-	-	200	-	-	-	200
DRUG ENFORCEMENT ADMINISTRATION	200	200	-	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	-	200	-	-	-	200
DEPARTMENT OF STATE, TOTAL	27,258	23,923	2,300	1,035	-	1,850	-	950	500	400
AGENCY FOR INTERNATIONAL DEVELOPMENT	27,258	23,923	2,300	1,035	-	1,850	-	950	500	400
DEPT OF TRANSPORTATION, TOTAL	1,064	-	1,064	-	-	357	40	-	117	200
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,064	-	1,064	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	240	40	-	-	200
US COAST GUARD	-	-	-	-	-	117	-	-	117	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,059	315	-	1,744	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	118,722	87,354	-	5,845	25,523	100,458	19,442	31,151	15,888	33,977
ENVIRONMENTAL PROTECTION AGENCY	60,720	54,041	-	6,679	-	5,520	939	2,594	1,987	-
NATIONAL AERONAUTICS & SPACE ADMIN	35,832	17,554	1,014	14,220	3,044	244,550	111,256	49,324	21,146	62,824
NATIONAL SCIENCE FOUNDATION	136,394	135,702	-	-	692	161,512	62,067	49,082	50,017	346
OFFICE OF TELECOMMUNICATIONS POLICY	150	150	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	12,897	12,897	-	-	-	2,397	104	1,651	642	-
TENNESSEE VALLEY AUTHORITY	2,010	2,010	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	129	19	110	-	-
VETERANS ADMINISTRATION	81,322	19,960	40,322	20,040	1,000	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-23. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,377,983	781,883	246,063	90,877	112,414	262,182	124,906	295,803	463,855
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	37,094	-	-	3,049	5,205	298	2,575	-	25,967
AGRICULTURAL RESEARCH SERVICE	24,414	-	-	2,728	2,927	119	1,148	-	17,492
COOPERATIVE STATE RESEARCH SERVICE	3,887	-	-	-	-	-	-	-	3,887
FOREST SERVICE	8,793	-	-	321	2,278	179	1,427	-	4,588
DEPARTMENT OF COMMERCE, TOTAL	18,117	-	-	62	5,599	3,268	872	2,124	6,192
MARITIME ADMINISTRATION	4,595	-	-	-	2,928	526	526	-	615
NATIONAL BUREAU OF STANDARDS	12,282	-	-	-	2,113	2,329	284	2,124	5,432
NATIONAL OCEANIC AND ATMOS ADMIN	703	-	-	-	558	-	-	-	145
OFFICE OF TELECOMMUNICATIONS	350	-	-	-	-	350	-	-	-
PATENT & TRADEMARK OFFICE	187	-	-	62	-	63	62	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,123,846	368,136	82,063	23,895	41,046	179,974	67,280	102,673	258,779
DEPARTMENT OF THE ARMY	141,900	25,406	74	6,107	11,770	42,549	18,184	12,005	25,805
DEPARTMENT OF THE NAVY	140,646	12,250	-	9,368	3,599	39,189	26,663	18,157	31,420
DEPARTMENT OF THE AIR FORCE	693,244	326,474	80,350	8,420	7,088	58,462	16,358	52,949	143,143
DEFENSE AGENCIES	147,840	4,006	1,639	-	18,485	39,749	6,057	19,562	58,342
DEPARTMENTWIDE FUNDS	216	-	-	-	104	25	18	-	69
DEPT OF HEALTH, ED, & WELFARE, TOTAL	20,828	-	-	-	-	-	-	-	20,828
NATIONAL INSTITUTES OF HEALTH	20,828	-	-	-	-	-	-	-	20,828
DEPT OF HOUSING & URBAN DEVELOPMENT	4,645	-	-	-	-	-	-	-	4,645
DEPARTMENT OF THE INTERIOR, TOTAL	78,319	-	-	12,382	13,627	5,610	6,775	39,171	754
BONNEVILLE POWER ADMINISTRATION	462	-	-	-	-	462	-	-	-
BUREAU OF MINES	67,520	-	-	12,300	5,400	5,000	5,700	39,120	-
BUREAU OF RECLAMATION	2,381	-	-	5	2,226	130	10	-	10
GEOLOGICAL SURVEY	2,118	-	-	-	1,813	5	300	-	-
OFFICE OF THE SECRETARY	965	-	-	-	200	-	765	-	-
OFFICE OF WATER RES AND TECHNOLOGY	4,873	-	-	77	3,988	13	-	51	744
DEPARTMENT OF JUSTICE, TOTAL	82	-	-	-	-	82	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	82	-	-	-	-	82	-	-	-
DEPARTMENT OF STATE, TOTAL	525	-	-	-	235	-	290	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	525	-	-	-	235	-	290	-	-
DEPT OF TRANSPORTATION, TOTAL	25,751	1,767	318	-	20,878	1,170	1,618	-	-
FEDERAL AVIATION ADMINISTRATION	3,600	496	318	-	2,266	520	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	1,900	-	-	-	1,900	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	7,050	-	-	-	7,050	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	8,583	-	-	-	7,238	-	1,345	-	-
OFFICE OF THE SECRETARY	2,727	1,071	-	-	1,656	-	-	-	-
US COAST GUARD	1,291	200	-	-	168	650	273	-	-
URBAN MASS TRANSPORTATION ADMIN	600	-	-	-	600	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	472	-	-	-	-	-	-	472	-
BUREAU OF ENGRAVING AND PRINTING	472	-	-	-	-	-	-	472	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	822	-	-	-	-	20	802	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	84,697	-	-	11,876	1,000	100	2,822	59,603	9,296
ENVIRONMENTAL PROTECTION AGENCY	45,497	-	-	17,288	17,750	5,232	5,227	-	-
FEDERAL COMMUNICATIONS COMMISSION	921	-	-	-	-	921	-	-	-
FEDERAL ENERGY ADMINISTRATION	119	-	-	-	119	-	-	-	-
GENERAL SERVICES ADMINISTRATION	296	-	-	-	196	6	-	-	94
NATIONAL AERONAUTICS & SPACE ADMIN	755,490	411,980	163,618	9,136	1,241	48,815	28,971	74,293	17,436
NATIONAL SCIENCE FOUNDATION	77,418	-	-	11,494	4,989	15,503	7,674	17,467	20,291
NUCLEAR REGULATORY COMMISSION	88,432	-	-	-	-	-	-	-	88,432
OFFICE OF TELECOMMUNICATIONS POLICY	1,197	-	40	-	-	1,029	-	-	128
TENNESSEE VALLEY AUTHORITY	13,057	-	-	1,695	529	-	-	-	10,833
US ARMS CONTROL & DISARMAMENT AGENCY	259	-	24	-	-	55	-	-	180
US INFORMATION AGENCY	99	-	-	-	-	99	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-24. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,601,590	811,536	256,557	110,500	135,990	306,457	136,623	313,267	530,660
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	42,180	-	-	3,470	5,907	336	2,924	-	29,543
AGRICULTURAL RESEARCH SERVICE	27,829	-	-	3,110	3,337	134	1,308	-	19,940
COOPERATIVE STATE RESEARCH SERVICE	4,411	-	-	-	-	-	-	-	4,411
FOREST SERVICE	9,940	-	-	360	2,570	202	1,616	-	5,192
DEPARTMENT OF COMMERCE, TOTAL	19,587	-	-	74	5,521	3,574	798	2,411	7,209
MARITIME ADMINISTRATION	4,210	-	-	-	2,435	401	401	-	973
NATIONAL BUREAU OF STANDARDS	13,972	-	-	-	2,429	2,644	322	2,411	6,166
NATIONAL OCEANIC AND ATMOS ADMIN	780	-	-	-	657	53	-	-	70
OFFICE OF TELECOMMUNICATIONS	402	-	-	-	-	402	-	-	-
PATENT & TRADEMARK OFFICE	223	-	-	74	-	74	75	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,187,661	370,730	87,327	26,511	46,940	207,754	69,495	109,824	269,080
DEPARTMENT OF THE ARMY	174,428	30,253	-	6,988	13,957	56,727	19,966	16,292	30,245
DEPARTMENT OF THE NAVY	145,893	7,796	-	9,819	4,021	41,369	26,545	18,607	37,736
DEPARTMENT OF THE AIR FORCE	686,037	323,807	79,453	8,372	7,045	56,988	16,259	51,821	142,292
DEFENSE AGENCIES	181,025	8,874	7,874	1,200	21,884	52,647	6,725	23,104	58,717
DEPARTMENTWIDE FUNDS	278	-	-	132	33	23	-	-	90
DEPT OF HEALTH, ED, & WELFARE, TOTAL	23,003	-	-	-	-	-	-	-	23,003
NATIONAL INSTITUTES OF HEALTH	23,003	-	-	-	-	-	-	-	23,003
DEPT OF HOUSING & URBAN DEVELOPMENT	3,855	-	-	-	-	-	-	-	3,855
DEPARTMENT OF THE INTERIOR, TOTAL	86,575	-	-	13,463	13,877	6,334	9,952	41,965	984
BONNEVILLE POWER ADMINISTRATION	220	-	-	-	-	220	-	-	-
BUREAU OF MINES	73,820	-	-	13,300	6,400	5,800	6,400	41,920	-
BUREAU OF RECLAMATION	2,721	-	-	5	2,554	135	15	-	12
GEOLOGICAL SURVEY	2,130	-	-	-	1,830	50	250	-	-
OFFICE OF THE SECRETARY	3,687	-	-	-	285	115	3,287	-	-
OFFICE OF WATER RES AND TECHNOLOGY	3,997	-	-	158	2,808	14	-	45	972
DEPARTMENT OF JUSTICE, TOTAL	496	-	-	51	-	445	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	250	-	-	-	-	250	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	246	-	-	51	-	195	-	-	-
DEPARTMENT OF STATE, TOTAL	500	-	-	-	-	-	-	-	500
AGENCY FOR INTERNATIONAL DEVELOPMENT	500	-	-	-	-	-	-	-	500
DEPT OF TRANSPORTATION, TOTAL	38,454	2,330	450	-	30,913	1,562	3,199	-	-
FEDERAL AVIATION ADMINISTRATION	5,100	703	450	-	3,210	737	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	-	-	-	2,000	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	7,215	-	-	-	7,215	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	18,205	-	-	-	15,352	-	2,853	-	-
OFFICE OF THE SECRETARY	3,496	1,373	-	-	2,123	-	-	-	-
US COAST GUARD	1,638	254	-	-	213	825	346	-	-
URBAN MASS TRANSPORTATION ADMIN	800	-	-	-	800	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	463	-	-	-	-	-	-	463	-
BUREAU OF ENGRAVING AND PRINTING	463	-	-	-	-	-	-	463	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	1,075	-	-	-	-	27	1,048	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	112,740	-	-	15,945	1,324	392	1,021	72,504	21,554
ENVIRONMENTAL PROTECTION AGENCY	62,878	-	-	23,894	24,522	7,168	7,294	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,141	-	-	-	-	1,141	-	-	-
GENERAL SERVICES ADMINISTRATION	96	-	-	-	76	-	-	-	20
NATIONAL AERONAUTICS & SPACE ADMIN	799,216	438,476	168,713	11,940	1,599	58,012	31,340	67,586	21,550
NATIONAL SCIENCE FOUNDATION	81,916	-	-	13,366	5,171	17,755	9,552	18,514	17,558
NUCLEAR REGULATORY COMMISSION	113,888	-	-	-	-	-	-	-	113,888
OFFICE OF TELECOMMUNICATIONS POLICY	1,765	-	29	-	-	1,736	-	-	-
TENNESSEE VALLEY AUTHORITY	23,557	-	-	1,786	140	-	-	-	21,631
US ARMS CONTROL & DISARMAMENT AGENCY	410	-	38	-	-	87	-	-	285
US INFORMATION AGENCY	134	-	-	-	-	134	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-25. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,810,793	848,216	280,096	115,228	132,861	342,289	149,793	366,260	576,050
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	46,400	-	-	3,866	6,471	366	3,181	-	32,516
AGRICULTURAL RESEARCH SERVICE	31,164	-	-	3,482	3,737	151	1,465	-	22,329
COOPERATIVE STATE RESEARCH SERVICE	4,674	-	-	-	-	-	-	-	4,674
FOREST SERVICE	10,562	-	-	384	2,734	215	1,716	-	5,513
DEPARTMENT OF COMMERCE, TOTAL	18,092	-	-	74	5,000	3,539	615	1,986	6,878
MARITIME ADMINISTRATION	3,859	-	-	-	2,231	368	368	-	892
NATIONAL BUREAU OF STANDARDS	12,928	-	-	-	2,201	2,644	172	1,986	5,925
NATIONAL OCEANIC AND ATMOS ADMIN	680	-	-	-	568	51	-	-	61
OFFICE OF TELECOMMUNICATIONS	402	-	-	-	-	402	-	-	-
PATENT & TRADEMARK OFFICE	223	-	-	74	-	74	75	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,304,659	400,224	106,553	32,348	54,051	241,746	85,897	116,772	267,068
DEPARTMENT OF THE ARMY	210,295	37,753	-	12,113	16,970	72,420	33,159	17,363	20,509
DEPARTMENT OF THE NAVY	156,392	9,395	-	9,918	4,328	44,549	28,392	21,266	38,544
DEPARTMENT OF THE AIR FORCE	727,488	343,111	84,276	8,864	7,459	60,742	17,215	55,159	150,662
DEFENSE AGENCIES	209,959	9,965	22,277	1,203	25,221	63,995	7,131	22,984	57,183
DEPARTMENTWIDE FUNDS	525	-	-	250	65	40	-	-	170
DEPT OF HEALTH, ED, & WELFARE, TOTAL	23,673	-	-	-	-	-	-	-	23,673
NATIONAL INSTITUTES OF HEALTH	23,673	-	-	-	-	-	-	-	23,673
DEPT OF HOUSING & URBAN DEVELOPMENT	3,900	-	-	-	-	-	-	-	3,900
DEPARTMENT OF THE INTERIOR, TOTAL	82,497	-	-	13,110	13,912	6,100	6,988	41,085	1,302
BONNEVILLE POWER ADMINISTRATION	470	-	-	-	-	470	-	-	-
BUREAU OF MINES	70,420	-	-	12,900	5,600	5,300	5,600	41,020	-
BUREAU OF RECLAMATION	2,329	-	-	5	2,147	160	5	-	12
GEOLOGICAL SURVEY	2,125	-	-	-	1,825	50	250	-	-
OFFICE OF THE SECRETARY	1,433	-	-	-	200	100	1,133	-	-
OFFICE OF WATER RES AND TECHNOLOGY	5,720	-	-	205	4,140	20	-	65	1,290
DEPARTMENT OF JUSTICE, TOTAL	525	-	-	-	-	525	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	-	400	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	125	-	-	-	-	125	-	-	-
DEPARTMENT OF STATE, TOTAL	200	-	-	-	-	-	200	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	200	-	-	-	-	-	200	-	-
DEPT OF TRANSPORTATION, TOTAL	30,862	2,253	503	100	24,506	1,398	2,102	-	-
FEDERAL AVIATION ADMINISTRATION	5,700	785	503	-	3,589	823	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	-	-	-	2,000	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	5,655	-	-	-	5,655	-	-	-	-
MATERIALS TRANSPORTATION BUREAU	100	-	-	100	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	11,878	-	-	-	10,017	-	1,861	-	-
OFFICE OF THE SECRETARY	3,287	1,291	-	-	1,996	-	-	-	-
US COAST GUARD	1,142	177	-	-	149	575	241	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	1,100	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	496	-	-	-	-	-	-	496	-
BUREAU OF ENGRAVING AND PRINTING	496	-	-	-	-	-	-	496	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	869	-	-	-	-	35	834	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	126,366	-	-	15,656	300	2,000	1,844	81,283	25,283
ENVIRONMENTAL PROTECTION AGENCY	53,912	-	-	20,487	21,026	6,254	6,145	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,214	-	-	-	-	1,214	-	-	-
GENERAL SERVICES ADMINISTRATION	319	-	-	-	209	85	-	-	25
NATIONAL AERONAUTICS & SPACE ADMIN	861,955	445,739	172,949	12,675	1,620	58,605	31,539	108,907	29,921
NATIONAL SCIENCE FOUNDATION	91,339	-	-	14,448	5,599	19,198	10,448	15,731	25,915
NUCLEAR REGULATORY COMMISSION	139,100	-	-	-	-	-	-	-	139,100
OFFICE OF TELECOMMUNICATIONS POLICY	1,069	-	50	-	-	1,009	-	-	10
TENNESSEE VALLEY AUTHORITY	22,781	-	-	2,464	167	-	-	-	20,150
US ARMS CONTROL & DISARMAMENT AGENCY	445	-	41	-	-	95	-	-	309
US INFORMATION AGENCY	120	-	-	-	-	120	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	152,855	75,980	71,958	4,917	389,985	13,579	138,022	7.239	53,509	177.636
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,807	3,807	-	-	56,338	-	53,099	-	2,649	590
AGRICULTURAL RESEARCH SERVICE	956	956	-	-	1,703	-	1,614	-	13	76
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	25,210	-	23,875	-	1,335	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	23,962	-	22,549	-	899	514
FARMER COOPERATIVE SERVICE	-	-	-	-	1,205	-	1,205	-	-	-
FOREST SERVICE	1,278	1,278	-	-	4,258	-	3,856	-	402	-
STATISTICAL REPORTING SERVICE	1,573	1,573	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	3,900	1,870	2,030	-	8,634	-	8,414	-	220	-
BUREAU OF THE CENSUS	1,403	1,200	203	-	470	-	250	-	220	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	2,063	-	2,063	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	381	-	381	-	-	-
NATIONAL BUREAU OF STANDARDS	2,497	670	1,827	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	5,315	-	5,315	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	-	-	-	-	405	-	405	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	73,680	25,030	48,289	361	5,067	24	854	891	1,608	1,690
DEPARTMENT OF THE ARMY	7,048	4,724	2,324	-	2,079	24	609	-	386	1,060
DEPARTMENT OF THE NAVY	30,765	8,142	22,312	311	1,194	-	-	-	1,194	-
DEPARTMENT OF THE AIR FORCE	8,148	5,899	2,249	-	-	-	-	-	-	-
DEFENSE AGENCIES	27,657	6,240	21,367	50	1,735	-	220	885	-	630
DEPARTMENTWIDE FUNDS	62	25	37	-	59	-	25	6	28	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	20,052	20,052	-	-	158,113	3,811	17,931	551	29,579	106,241
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	1,112	1,112	-	-	20,684	3,811	237	-	14,254	2,382
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	28,471	-	1,655	551	276	25,989
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	10,798	-	-	-	-	10,798
NATIONAL INSTITUTES OF HEALTH	18,940	18,940	-	-	8,270	-	-	-	-	8,270
OFFICE OF EDUCATION	-	-	-	-	21,428	-	-	-	-	21,428
OFFICE OF HUMAN DEVELOPMENT	-	-	-	-	16,041	-	-	-	-	16,041
OFFICE OF ASS'T SECTY FOR EDUCATION	-	-	-	-	1,037	-	-	-	-	1,037
OFFICE OF THE SECRETARY	-	-	-	-	23,704	-	16,039	-	7,665	-
SOCIAL AND REHABILITATION SERVICE	-	-	-	-	18,580	-	-	-	7,384	11,196
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	9,100	-	-	-	-	9,100
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	32,300	-	12,900	-	-	19,400
DEPARTMENT OF THE INTERIOR, TOTAL	3,158	1,824	1,269	65	5,930	3,680	720	566	560	404
BUREAU OF LAND MANAGEMENT	-	-	-	-	10	10	-	-	-	-
BUREAU OF MINES	1,600	1,600	-	-	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	-	-	-	-	20	-	-	-	-	20
BUREAU OF RECLAMATION	-	-	-	-	207	30	74	-	103	-
GEOLOGICAL SURVEY	1,493	224	1,269	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,046	3,627	16	-	213	190
OFFICE OF WATER RES AND TECHNOLOGY	65	-	-	65	1,647	13	630	566	244	194
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	15,329	-	-	486	13,965	878
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	15,329	-	-	486	13,965	878
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	17,761	-	16,830	-	931	-
BUREAU OF LABOR STATISTICS	-	-	-	-	776	-	776	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	7,305	-	6,374	-	931	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	4,268	-	4,268	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	731	-	731	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	2,900	-	2,900	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,781	-	1,781	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	8,219	-	5,565	1,121	302	1,231
DEPARTMENTAL FUNDS	-	-	-	-	1,121	-	-	1,121	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	-	-	-	-	7,098	-	5,565	-	302	1,231
DEPT OF TRANSPORTATION, TOTAL	766	141	387	238	3,437	-	1,373	64	173	1,827
FEDERAL RAILROAD ADMINISTRATION	-	-	-	-	1,550	-	500	-	-	1,050
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	469	94	137	238	79	-	79	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	934	-	514	64	173	183
US COAST GUARD	297	47	250	-	874	-	280	-	-	594

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TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ACTION	-	-	-	-	75	-	-	-	75	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	-	-	-	-	1,026	-	513	513	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	719	-	719	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	445	-	445	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	165	-	165	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	5,552	3,862	2,090	-	2,309	-	2,309	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,330	466	1,864	-	1,900	-	1,520	-	380	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	613	-	613	-	-	-
FEDERAL ENERGY ADMINISTRATION	-	-	-	-	929	-	929	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	782	-	782	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	850	-	850	-	-	-
INTERSTATE COMMERCE COMMISSION	88	88	-	-	35	-	35	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	4,078	-	-	4,078	1,783	-	1,648	95	-	40
NATIONAL SCIENCE FOUNDATION	34,691	18,487	16,029	175	56,221	3,489	7,884	2,326	2,967	39,655
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	556	-	246	120	100	90
SMALL BUSINESS ADMINISTRATION	-	-	-	-	52	-	52	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	8,089	2,575	-	-	-	5,514
TENNESSEE VALLEY AUTHORITY	-	-	-	-	101	-	101	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	353	353	-	-	531	-	25	506	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	1,500	-	1,500	-	-	-
VETERANS ADMINISTRATION	-	-	-	-	76	-	-	-	-	76

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	165,618	86,465	72,836	6,317	456,543	14,358	151,445	7,388	65,824	217,528
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	4,318	4,318	-	-	62,916	-	59,301	-	2,966	649
AGRICULTURAL RESEARCH SERVICE	1,090	1,090	-	-	1,941	-	1,841	-	14	86
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	28,614	-	27,098	-	1,516	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	26,200	-	24,655	-	982	563
FARMER COOPERATIVE SERVICE	-	-	-	-	1,335	-	1,335	-	-	-
FOREST SERVICE	1,428	1,428	-	-	4,826	-	4,372	-	454	-
STATISTICAL REPORTING SERVICE	1,800	1,800	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,307	2,016	2,291	-	9,649	-	9,399	-	250	-
BUREAU OF THE CENSUS	1,472	1,255	217	-	550		300	-	250	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	2,066	-	2,066	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	259	-	259	-	-	-
NATIONAL BUREAU OF STANDARDS	2,835	761	2,074	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	6,374	-	6,374	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	-	-	-	-	400	-	400	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	75,601	26,689	47,284	1,628	6,054	-	786	283	1,878	3,107
DEPARTMENT OF THE ARMY	8,868	5,980	2,868	-	4,290	-	694	-	489	3,107
DEPARTMENT OF THE NAVY	34,703	9,509	23,866	1,328	1,352	-	-	-	1,352	-
DEPARTMENT OF THE AIR FORCE	8,524	7,130	1,394	-	-	-	-	-	-	-
DEFENSE AGENCIES	23,427	4,030	19,097	300	335	-	60	275	-	-
DEPARTMENTWIDE FUNDS	79	40	39	-	77	-	32	8	37	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	22,133	22,133	-	-	193,846	2,499	15,681	538	32,109	143,019
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	1,268	1,268	-	-	21,898	2,499	267	-	16,440	2,692
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	27,994	-	1,614	538	269	25,573
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	24,900	-	-	-	-	24,900
NATIONAL INSTITUTES OF HEALTH	20,865	20,865	-	-	9,014	-	-	-	-	9,014
OFFICE OF EDUCATION	-	-	-	-	27,900	-	-	-	-	27,900
OFFICE OF HUMAN DEVELOPMENT	-	-	-	-	22,178	-	-	-	-	22,178
OFFICE OF ASS'T SECTY FOR EDUCATION	-	-	-	-	1,037	-	-	-	-	1,037
OFFICE OF THE SECRETARY	-	-	-	-	20,000	-	13,800	-	6,200	-
SOCIAL AND REHABILITATION SERVICE	-	-	-	-	29,325	-	-	-	9,200	20,125
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	9,600	-	-	-	-	9,600
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	30,245	-	13,146	-	-	17,099
DEPARTMENT OF THE INTERIOR, TOTAL	3,450	1,850	1,517	83	5,759	3,631	614	507	596	411
BUREAU OF LAND MANAGEMENT	-	-	-	-	62	10	-	-	52	-
BUREAU OF MINES	1,600	1,600	-	-	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	-	-	-	-	20	-	-	-	-	20
BUREAU OF RECLAMATION	-	-	-	-	157	10	102	-	45	-
GEOLOGICAL SURVEY	1,767	250	1,517	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,145	3,597	13	-	306	229
OFFICE OF WATER RES AND TECHNOLOGY	83	-	-	83	1,375	14	499	507	193	162
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	22,864	-	130	625	20,647	1,462
BUREAU OF PRISONS	-	-	-	-	297	-	30	-	197	70
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	22,567	-	100	625	20,450	1,392
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	21,419	-	20,716	-	703	-
BUREAU OF LABOR STATISTICS	-	-	-	-	896	-	896	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	6,487	-	5,784	-	703	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	5,535	-	5,535	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,889	-	2,889	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	3,300	-	3,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	2,312	-	2,312	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	8,478	300	4,822	1,332	931	1,093
DEPARTMENTAL FUNDS	-	-	-	-	1,332	-	-	1,332	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	-	-	-	-	7,146	300	4,822	-	931	1,093
DEPT OF TRANSPORTATION, TOTAL	1,371	259	607	505	4,063	-	1,697	82	222	2,062
FEDERAL RAILROAD ADMINISTRATION	-	-	-	-	1,585	-	512	-	-	1,073
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	994	199	290	505	170	-	170	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,198	-	659	82	222	235
US COAST GUARD	377	60	317	-	1,110	-	356	-	-	754

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TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ACTION	-	-	-	-	94	-	-	-	94	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	-	-	-	-	1,172	-	586	586	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	800	-	800	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	496	-	496	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,400	-	-	-	1,400	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	120	-	120	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	6,839	4,314	2,525	-	3,720	-	1,944	-	-	1,776
ENVIRONMENTAL PROTECTION AGENCY	3,219	2,575	644	-	2,575	-	2,060	-	515	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	919	-	919	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	995	-	995	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,110	-	1,110	-	-	-
INTERSTATE COMMERCE COMMISSION	45	45	-	-	573	-	573	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	4,101	-	-	4,101	2,031	-	1,549	95	-	387
NATIONAL SCIENCE FOUNDATION	39,675	21,707	17,968	-	59,829	3,880	9,703	2,499	3,513	40,234
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	390	-	287	-	-	103
SMALL BUSINESS ADMINISTRATION	-	-	-	-	1,027	-	1,027	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	10,090	4,048	-	-	-	6,042
TENNESSEE VALLEY AUTHORITY	-	-	-	-	144	-	144	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	559	559	-	-	881	-	40	841	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	2,800	-	2,800	-	-	-
VETERANS ADMINISTRATION	-	-	-	-	84	-	-	-	-	84

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	183,820	94,169	82,540	7,111	482,158	17,496	162,850	7,982	69,059	224,771
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	4,545	4,545	-	-	67,519	-	63,641	-	2,875	1,003
AGRICULTURAL RESEARCH SERVICE	1,220	1,220	-	-	2,173	-	2,060	-	17	96
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	30,318	-	28,712	-	1,606	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	28,331	-	26,655	-	769	907
FARMER COOPERATIVE SERVICE	-	-	-	-	1,574	-	1,574	-	-	-
FOREST SERVICE	1,525	1,525	-	-	5,123	-	4,640	-	483	-
STATISTICAL REPORTING SERVICE	1,800	1,800	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,400	2,095	2,305	-	9,361	-	9,111	-	250	-
BUREAU OF THE CENSUS	1,565	1,334	231	-	550	-	300	-	250	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	2,000	-	2,000	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	236	-	236	-	-	-
NATIONAL BUREAU OF STANDARDS	2,835	761	2,074	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	6,247	-	6,247	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	-	-	-	-	328	-	328	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	88,065	31,202	55,425	1,438	4,991	-	1,479	145	2,184	1,183
DEPARTMENT OF THE ARMY	15,449	7,312	8,137	-	3,121	-	1,389	-	599	1,133
DEPARTMENT OF THE NAVY	37,666	11,220	25,328	1,118	1,531	-	-	-	1,531	-
DEPARTMENT OF THE AIR FORCE	9,039	7,790	1,249	-	-	-	-	-	-	-
DEFENSE AGENCIES	25,761	4,820	20,621	320	195	-	-	145	-	50
DEPARTMENTWIDE FUNDS	150	60	90	-	144	-	90	-	54	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	22,671	22,671	-	-	204,910	2,457	17,352	544	32,399	152,158
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	1,228	1,228	-	-	21,325	2,457	265	-	15,983	2,620
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	28,291	-	1,631	544	272	25,844
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	35,800	-	-	-	-	35,800
NATIONAL INSTITUTES OF HEALTH	21,443	21,443	-	-	9,255	-	-	-	-	9,255
OFFICE OF EDUCATION	-	-	-	-	24,374	-	-	-	-	24,374
OFFICE OF HUMAN DEVELOPMENT	-	-	-	-	19,028	-	-	-	-	19,028
OFFICE OF ASS'T SECTY FOR EDUCATION	-	-	-	-	1,037	-	-	-	-	1,037
OFFICE OF THE SECRETARY	-	-	-	-	22,400	-	15,456	-	6,944	-
SOCIAL AND REHABILITATION SERVICE	-	-	-	-	31,200	-	-	-	9,200	22,000
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	12,200	-	-	-	-	12,200
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	28,400	-	15,800	-	-	12,600
DEPARTMENT OF THE INTERIOR, TOTAL	3,730	1,869	1,741	120	7,246	4,497	783	720	697	549
BUREAU OF LAND MANAGEMENT	-	-	-	-	73	40	-	-	33	-
BUREAU OF MINES	1,600	1,600	-	-	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	-	-	-	-	20	-	-	-	-	20
BUREAU OF RECLAMATION	-	-	-	-	154	25	70	-	59	-
GEOLOGICAL SURVEY	1,995	269	1,726	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	5,066	4,417	13	-	332	304
OFFICE OF THE SECRETARY	15	-	15	-	-	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	120	-	-	120	1,933	15	700	720	273	225
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	24,900	-	200	-	21,107	3,593
BUREAU OF PRISONS	-	-	-	-	1,000	-	200	-	500	300
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	21,900	-	-	-	20,607	1,293
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	2,000	-	-	-	-	2,000
DEPARTMENT OF LABOR, TOTAL	100	40	60	-	21,007	-	20,397	-	610	-
BUREAU OF LABOR STATISTICS	-	-	-	-	787	-	787	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	5,605	-	4,995	-	610	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	5,550	-	5,550	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,965	-	2,965	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	100	40	60	-	4,200	-	4,200	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,900	-	1,900	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	13,458	700	6,602	1,832	3,624	700
DEPARTMENTAL FUNDS	-	-	-	-	1,832	-	-	1,832	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	-	-	-	-	11,626	700	6,602	-	3,624	700
DEPT OF TRANSPORTATION, TOTAL	912	172	411	329	3,254	-	1,375	77	209	1,593
FEDERAL RAILROAD ADMINISTRATION	-	-	-	-	1,245	-	400	-	-	845
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	649	130	190	329	109	-	109	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,127	-	619	77	209	222
US COAST GUARD	263	42	221	-	773	-	247	-	-	526

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TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ACTION	-	-	-	-	331	-	92	-	239	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	-	-	-	-	1,379	-	690	689	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	800	-	800	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	496	-	496	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	500	-	-	-	500	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	60	-	60	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	7,420	5,070	2,350	-	3,000	-	2,000	-	-	1,000
ENVIRONMENTAL PROTECTION AGENCY	2,760	2,208	552	-	2,208	-	1,767	-	441	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	930	-	930	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	993	-	993	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,200	-	1,200	-	-	-
INTERSTATE COMMERCE COMMISSION	113	-	113	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	5,224	-	-	5,224	1,878	-	1,476	95	-	307
NATIONAL SCIENCE FOUNDATION	43,273	23,690	19,583	-	65,501	4,713	10,222	2,907	3,924	43,735
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	1,361	-	1,251	60	-	50
SMALL BUSINESS ADMINISTRATION	-	-	-	-	1,100	-	1,100	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	11,339	5,129	-	-	-	6,210
TENNESSEE VALLEY AUTHORITY	-	-	-	-	190	-	190	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	607	607	-	-	956	-	43	913	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	2,800	-	2,800	-	-	-
VETERANS ADMINISTRATION	-	-	-	-	90	-	-	-	-	90

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-29. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	2,425,486	719,072	108,264	43,292	1,137,135	284,301	100,989	7,431	10,239	14,763
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	171,371	119,645	164	-	47,004	-	180	-	210	4,168
AGRICULTURAL RESEARCH SERVICE	101,686	95,666	38	-	1,674	-	113	-	27	4,168
COOPERATIVE STATE RESEARCH SERVICE	43,088	1,148	-	-	41,774	-	-	-	166	-
ECONOMIC RESEARCH SERVICE	3,594	3,488	-	-	106	-	-	-	-	-
FOREST SERVICE	22,572	18,951	126	-	3,411	-	67	-	17	-
STATISTICAL REPORTING SERVICE	431	392	-	-	39	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	22,274	18,447	1,325	150	1,644	-	672	-	2	34
BUREAU OF THE CENSUS	182	182	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,675	270	119	150	462	-	672	-	2	-
MARITIME ADMINISTRATION	1,164	23	1,141	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	5,798	5,235	-	-	529	-	-	-	-	34
NATIONAL FIRE PREV & CONTROL ADMIN	2,066	1,758	65	-	243	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	11,273	10,863	-	-	410	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	116	116	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	248,440	103,149	32,210	-	103,573	340	5,761	1,134	-	2,273
DEPARTMENT OF THE ARMY	39,040	17,176	2,612	-	16,588	-	2,133	-	-	531
DEPARTMENT OF THE NAVY	95,900	39,776	7,892	-	45,192	-	1,961	-	-	1,079
DEPARTMENT OF THE AIR FORCE	81,600	40,419	12,172	-	28,172	-	204	-	-	633
DEFENSE AGENCIES	31,900	5,778	9,534	-	13,621	340	1,463	1,134	-	30
DEPT OF HEALTH, ED, & WELFARE, TOTAL	652,417	131,667	603	-	434,929	1,434	71,156	363	9,225	3,040
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	52,557	15,859	-	-	29,266	-	4,912	58	1,930	532
HEALTH RESOURCES ADMINISTRATION	3,064	731	31	-	1,295	-	925	-	82	-
HEALTH SERVICES ADMINISTRATION	285	285	-	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	5,081	921	317	-	1,348	-	1,919	-	576	-
NATIONAL INSTITUTES OF HEALTH	586,557	111,933	-	-	400,558	1,434	63,182	305	6,637	2,508
OFFICE OF THE SECRETARY	4,873	1,938	255	-	2,462	-	218	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	113,289	104,414	1,480	-	7,259	-	-	-	136	-
BUREAU OF MINES	800	800	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	70	70	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	98,492	94,918	182	-	3,392	-	-	-	-	-
NATIONAL PARK SERVICE	555	203	-	-	352	-	-	-	-	-
OFFICE OF THE SECRETARY	975	395	530	-	50	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	3,565	405	550	-	2,595	-	-	-	15	-
US FISH AND WILDLIFE SERVICE	8,832	7,623	218	-	870	-	-	-	121	-
DEPARTMENT OF JUSTICE, TOTAL	4,500	700	-	-	1,226	-	1,519	1,055	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	4,500	700	-	-	1,226	-	1,519	1,055	-	-
DEPARTMENT OF LABOR, TOTAL	958	294	-	-	538	-	126	-	-	-
EMPLOYMENT AND TRAINING ADMIN	632	94	-	-	538	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	326	200	-	-	-	-	126	-	-	-
OTHER AGENCIES										
ACTION	32	7	-	-	5	-	5	-	15	-
CIVIL SERVICE COMMISSION	307	307	-	-	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	345,790	286	268	41,322	68,270	231,645	841	3,158	-	-
ENVIRONMENTAL PROTECTION AGENCY	13,700	685	-	-	12,705	-	310	-	-	-
FEDERAL TRADE COMMISSION	300	300	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	63	63	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	171	171	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	293,209	146,877	65,798	-	67,157	8,394	2,718	1,056	43	1,166
NATIONAL SCIENCE FOUNDATION	523,634	58,381	6,340	1,820	391,923	42,488	17,374	618	608	4,082
OFFICE OF TELECOMMUNICATIONS POLICY	396	100	76	-	54	-	119	47	-	-
SMITHSONIAN INSTITUTION	25,735	24,679	-	-	848	-	208	-	-	-
VETERANS ADMINISTRATION	8,900	8,900	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-30. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	2,754,656	790,913	151,671	49,417	1,290,153	315,110	117,563	7,194	14,402	18,233
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	194,007	135,949	130	-	52,940	-	70	-	215	4,703
AGRICULTURAL RESEARCH SERVICE	115,911	109,539	-	-	1,669	-	-	-	-	4,703
COOPERATIVE STATE RESEARCH SERVICE	48,904	1,864	-	-	46,845	-	-	-	195	-
ECONOMIC RESEARCH SERVICE	3,930	3,888	-	-	42	-	-	-	-	-
FOREST SERVICE	24,787	20,227	130	-	4,340	-	70	-	20	-
STATISTICAL REPORTING SERVICE	475	431	-	-	44	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	25,050	19,309	1,580	-	2,772	300	904	-	185	-
BUREAU OF THE CENSUS	200	200	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,675	84	100	-	402	-	904	-	185	-
MARITIME ADMINISTRATION	1,430	29	1,401	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	6,544	6,014	-	-	530	-	-	-	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	3,148	1,332	79	-	1,437	300	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	11,750	11,347	-	-	403	-	-	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	200	200	-	-	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	103	103	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	274,668	97,734	54,849	-	112,251	570	5,814	1,188	-	2,262
DEPARTMENT OF THE ARMY	40,125	15,562	1,971	-	19,879	-	2,152	-	-	561
DEPARTMENT OF THE NAVY	115,800	44,378	11,708	-	56,305	-	2,384	-	-	1,025
DEPARTMENT OF THE AIR FORCE	82,600	32,572	26,620	-	22,665	-	101	-	-	642
DEFENSE AGENCIES	36,143	5,222	14,550	-	13,402	570	1,177	1,188	-	34
DEPT OF HEALTH, ED, & WELFARE, TOTAL	747,114	150,532	866	-	495,576	1,678	80,585	278	12,565	5,034
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	60,147	19,030	-	-	31,398	-	5,646	-	2,111	1,962
HEALTH RESOURCES ADMINISTRATION	2,988	733	71	-	1,200	-	894	-	90	-
HEALTH SERVICES ADMINISTRATION	310	310	-	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	11,900	2,142	715	-	3,215	-	4,161	-	1,667	-
NATIONAL INSTITUTES OF HEALTH	670,169	127,677	-	-	458,963	1,678	69,804	278	8,697	3,072
OFFICE OF THE SECRETARY	1,600	640	80	-	800	-	80	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	124,633	113,561	1,872	-	8,117	-	-	-	165	918
BUREAU OF MINES	800	800	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	70	70	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	106,435	102,208	227	-	4,000	-	-	-	-	-
NATIONAL PARK SERVICE	619	227	-	-	392	-	-	-	-	-
OFFICE OF THE SECRETARY	3,116	898	1,000	-	300	-	-	-	-	918
OFFICE OF WATER RES AND TECHNOLOGY	3,465	530	395	-	2,525	-	-	-	15	-
US FISH AND WILDLIFE SERVICE	10,128	8,828	250	-	900	-	-	-	150	-
DEPARTMENT OF JUSTICE, TOTAL	10,000	1,100	-	-	2,023	-	5,377	1,200	300	-
LAW ENFORCEMENT ASSISTANCE ADMIN	10,000	1,100	-	-	2,023	-	5,377	1,200	300	-
DEPARTMENT OF LABOR, TOTAL	785	189	-	-	596	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	670	74	-	-	596	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	115	115	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	92	8	76	-	-	-	8	-	-	-
CIVIL SERVICE COMMISSION	277	277	-	-	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	390,686	899	834	47,337	77,003	260,320	888	3,405	-	-
ENVIRONMENTAL PROTECTION AGENCY	21,200	1,060	-	-	19,640	-	500	-	-	-
FEDERAL TRADE COMMISSION	355	355	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	65	65	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	150	150	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	319,694	156,684	83,734	-	66,036	8,271	2,942	760	45	1,222
NATIONAL SCIENCE FOUNDATION	605,821	75,234	7,584	2,080	451,689	43,971	19,879	363	927	4,094
OFFICE OF TELECOMMUNICATIONS POLICY	190	1	146	-	20	-	23	-	-	-
SMITHSONIAN INSTITUTION	30,569	28,506	-	-	1,490	-	573	-	-	-
VETERANS ADMINISTRATION	9,300	9,300	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-31. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	3,011,626	851,382	157,205	52,938	1,398,940	347,310	122,275	8,715	15,971	17,090
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	213,013	142,384	130	-	66,118	-	70	-	230	4,081
AGRICULTURAL RESEARCH SERVICE	129,801	114,080	-	-	11,640	-	-	-	-	4,081
COOPERATIVE STATE RESEARCH SERVICE	51,817	1,965	-	-	49,642	-	-	-	210	-
ECONOMIC RESEARCH SERVICE	4,250	4,208	-	-	42	-	-	-	-	-
FOREST SERVICE	26,670	21,700	130	-	4,750	-	70	-	20	-
STATISTICAL REPORTING SERVICE	475	431	-	-	44	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	24,427	19,354	1,423	-	2,620	300	540	-	110	80
BUREAU OF THE CENSUS	209	209	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,000	50	60	-	240	-	540	-	110	-
MARITIME ADMINISTRATION	1,310	26	1,284	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	6,384	5,774	-	-	530	-	-	-	-	80
NATIONAL FIRE PREV & CONTROL ADMIN	3,165	1,341	79	-	1,445	300	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	12,256	11,851	-	-	405	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	103	103	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	314,030	110,264	64,643	-	127,581	390	6,890	1,859	-	2,403
DEPARTMENT OF THE ARMY	52,630	19,336	2,567	-	27,174	-	2,491	-	-	662
DEPARTMENT OF THE NAVY	135,700	51,083	14,238	-	66,369	-	2,945	-	-	1,065
DEPARTMENT OF THE AIR FORCE	87,000	34,847	29,560	-	21,413	-	104	-	-	676
DEFENSE AGENCIES	38,700	4,998	17,478	-	12,625	390	1,350	1,859	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	772,672	160,970	1,170	-	507,075	1,986	83,635	373	13,556	3,907
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	61,250	22,432	-	-	29,850	-	5,415	-	2,006	1,547
HEALTH RESOURCES ADMINISTRATION	3,021	606	18	-	1,240	-	1,069	-	88	-
HEALTH SERVICES ADMINISTRATION	315	315	-	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	17,700	3,186	1,062	-	4,779	-	6,548	-	2,125	-
NATIONAL INSTITUTES OF HEALTH	688,594	133,715	-	-	470,310	1,896	70,603	373	9,337	2,360
OFFICE OF THE SECRETARY	1,792	716	90	-	896	90	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	147,043	134,231	1,296	-	10,612	-	-	-	190	714
BUREAU OF MINES	800	800	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	75	75	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	127,846	121,719	127	-	6,000	-	-	-	-	-
NATIONAL PARK SERVICE	725	265	-	-	460	-	-	-	-	-
OFFICE OF THE SECRETARY	2,162	898	300	-	250	-	-	-	-	714
OFFICE OF WATER RES AND TECHNOLOGY	3,963	452	594	-	2,902	-	-	-	15	-
US FISH AND WILDLIFE SERVICE	11,472	10,022	275	-	1,000	-	-	-	175	-
DEPARTMENT OF JUSTICE, TOTAL	6,600	1,100	-	-	750	-	3,050	1,250	450	-
LAW ENFORCEMENT ASSISTANCE ADMIN	6,600	1,100	-	-	750	-	3,050	1,250	450	-
DEPARTMENT OF LABOR, TOTAL	720	189	-	-	531	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	605	74	-	-	531	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	115	115	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	331	26	-	-	-	-	305	-	-	-
CIVIL SERVICE COMMISSION	277	277	-	-	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	429,233	1,011	1,064	50,583	89,005	282,903	595	4,072	-	-
ENVIRONMENTAL PROTECTION AGENCY	18,000	900	-	-	16,800	-	300	-	-	-
FEDERAL TRADE COMMISSION	360	360	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	150	65	60	-	-	-	25	-	-	-
INTERSTATE COMMERCE COMMISSION	19	19	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	157	157	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	365,359	163,893	118,511	-	70,036	7,500	3,482	637	65	1,235
NATIONAL SCIENCE FOUNDATION	677,329	77,081	8,508	2,355	505,937	54,231	22,303	474	1,370	4,670
OFFICE OF TELECOMMUNICATIONS POLICY	271	100	-	-	96	-	25	50	-	-
SMITHSONIAN INSTITUTION	32,135	29,301	-	-	1,779	-	1,055	-	-	-
VETERANS ADMINISTRATION	9,700	9,700	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-32. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1976	ESTIMATES	
		1977	1978
TOTAL, ALL FIELDS	2,425,486	2,754,656	3,011,826
LIFE SCIENCES, TOTAL	877,685	1,007,063	1,058,312
BIOLOGICAL	707,592	818,185	860,003
CLINICAL MEDICAL	27,906	28,738	32,365
OTHER MEDICAL SCIENCES	118,665	136,420	142,072
LIFE SCIENCES, NEC	23,522	25,720	23,872
PSYCHOLOGY, TOTAL	43,672	52,629	57,453
BIOLOGICAL ASPECTS	24,957	28,672	29,887
SOCIAL ASPECTS	16,911	20,359	22,643
PSYCHOLOGICAL SCIENCES, NEC	1,804	3,598	4,923
PHYSICAL SCIENCES, TOTAL	721,557	806,278	910,724
ASTRONOMY	158,909	179,583	219,508
CHEMISTRY	175,061	202,516	222,073
PHYSICS	382,817	416,368	460,430
PHYSICAL SCIENCES, NEC	4,770	7,811	8,713
ENVIRONMENTAL SCIENCES, TOTAL	354,628	393,598	438,055
ATMOSPHERIC SCIENCES	119,088	127,514	132,290
GEOLOGICAL SCIENCES	140,265	155,435	183,823
OCEANOGRAPHY	87,242	100,266	109,749
ENVIRONMENTAL SCIENCES, NEC	8,033	10,383	12,193
MATHEMATICS & COMPUTER SCIENCES, TOTAL	70,155	79,388	87,763
MATHEMATICS	39,047	46,362	52,245
COMPUTER SCIENCES	27,912	29,560	32,067
MATHEMATICS & COMPUTER SCIENCES, NEC	3,196	3,466	3,451
ENGINEERING, TOTAL	239,955	267,772	297,140
AERONAUTICAL	29,797	29,716	34,488
ASTRONAUTICAL	11,529	11,786	13,008
CHEMICAL	12,720	15,087	16,475
CIVIL	7,685	7,294	7,928
ELECTRICAL	43,039	46,624	54,602
MECHANICAL	14,854	18,902	19,914
METALLURGY & MATERIALS	97,429	113,916	121,118
ENGINEERING, NEC	22,902	24,447	29,607
SOCIAL SCIENCES, TOTAL	85,240	101,972	113,380
ANTHROPOLOGY	6,421	8,360	10,269
ECONOMICS	25,634	27,828	28,738
POLITICAL SCIENCE	2,999	2,564	2,988
SOCIOLOGY	16,478	21,292	18,862
SOCIAL SCIENCES, NEC	33,708	41,928	52,523
OTHER SCIENCES, NEC	32,594	45,956	48,999

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-33. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	2,425,486	877,685	43,672	721,557	354,628	70,155	239,955	85,240	32,594
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	171,371	121,665	23	21,546	3,301	1,350	9,489	13,997	-
AGRICULTURAL RESEARCH SERVICE	101,686	76,143	-	17,429	1,159	264	6,386	305	-
COOPERATIVE STATE RESEARCH SERVICE	43,088	29,609	-	2,154	269	-	1,477	9,579	-
ECONOMIC RESEARCH SERVICE	3,594	-	-	-	-	-	-	3,594	-
FOREST SERVICE	22,572	15,913	23	1,963	1,873	655	1,626	519	-
STATISTICAL REPORTING SERVICE	431	-	-	-	-	431	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	22,274	-	42	4,767	11,273	140	2,311	1,675	2,066
BUREAU OF THE CENSUS	182	-	42	-	-	140	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,675	-	-	-	-	-	-	1,675	-
MARITIME ADMINISTRATION	1,164	-	-	-	-	-	1,164	-	-
NATIONAL BUREAU OF STANDARDS	5,798	-	-	4,767	-	-	1,031	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	2,066	-	-	-	-	-	-	-	2,066
NATIONAL OCEANIC AND ATMOS ADMIN	11,273	-	-	-	11,273	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	116	-	-	-	-	-	116	-	-
DEPARTMENT OF DEFENSE, TOTAL	248,440	26,614	7,723	52,171	59,956	22,548	77,747	1,314	367
DEPARTMENT OF THE ARMY	39,040	14,343	2,417	5,209	5,167	3,021	8,763	120	-
DEPARTMENT OF THE NAVY	95,900	10,342	2,127	28,000	34,395	6,972	12,870	1,194	-
DEPARTMENT OF THE AIR FORCE	81,600	1,929	1,467	16,423	20,295	5,649	35,837	-	-
DEFENSE AGENCIES	31,900	-	1,712	2,539	99	6,906	20,277	-	367
DEPT OF HEALTH, ED, & WELFARE, TOTAL	652,417	562,100	25,129	33,559	-	3,160	5,376	19,411	3,682
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	52,557	29,986	15,918	32	-	335	-	6,067	219
HEALTH RESOURCES ADMINISTRATION	3,064	-	-	-	-	-	-	3,064	-
HEALTH SERVICES ADMINISTRATION	285	285	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	5,081	-	-	-	-	-	-	5,081	-
NATIONAL INSTITUTES OF HEALTH	586,557	531,829	9,211	33,527	-	2,825	5,376	326	3,463
OFFICE OF THE SECRETARY	4,873	-	-	-	-	-	-	4,873	-
DEPARTMENT OF THE INTERIOR, TOTAL	113,289	9,709	-	7,264	92,739	988	1,810	532	247
BUREAU OF MINES	800	-	-	680	-	-	120	-	-
BUREAU OF RECLAMATION	70	-	-	-	-	-	70	-	-
GEOLOGICAL SURVEY	98,492	-	-	6,310	91,208	974	-	-	-
NATIONAL PARK SERVICE	555	398	-	-	45	-	-	112	-
OFFICE OF THE SECRETARY	975	-	-	-	80	-	895	-	-
OFFICE OF WATER RES AND TECHNOLOGY	3,565	479	-	274	1,406	14	725	420	247
US FISH AND WILDLIFE SERVICE	8,832	8,832	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	4,500	-	44	-	-	-	-	4,456	-
LAW ENFORCEMENT ASSISTANCE ADMIN	4,500	-	44	-	-	-	-	4,456	-
DEPARTMENT OF LABOR, TOTAL	958	-	32	-	-	-	-	926	-
EMPLOYMENT AND TRAINING ADMIN	632	-	32	-	-	-	-	600	-
LABOR-MANAGEMENT SERVICES ADMIN	326	-	-	-	-	-	-	326	-
OTHER AGENCIES									
ACTION	32	-	-	-	-	-	-	32	-
CIVIL SERVICE COMMISSION	307	-	307	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	345,790	24,381	-	267,401	2,874	5,952	45,182	-	-
ENVIRONMENTAL PROTECTION AGENCY	13,700	8,220	-	4,084	1,096	-	300	-	-
FEDERAL TRADE COMMISSION	300	-	-	-	-	-	-	300	-
GENERAL SERVICES ADMINISTRATION	63	-	-	-	-	-	-	-	63
LIBRARY OF CONGRESS	171	-	-	-	-	-	-	-	171
NATIONAL AERONAUTICS & SPACE ADMIN	293,209	8,902	960	182,856	60,393	3,172	35,759	39	1,128
NATIONAL SCIENCE FOUNDATION	523,634	97,593	8,249	143,471	120,789	32,845	61,912	34,217	24,558
OFFICE OF TELECOMMUNICATIONS POLICY	396	45	-	30	-	-	69	252	-
SMITHSONIAN INSTITUTION	25,735	11,031	-	4,408	2,207	-	-	8,089	-
VETERANS ADMINISTRATION	8,900	7,425	1,163	-	-	-	-	-	312

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-34. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	2,754,656	1,007,063	52,629	806,278	393,598	79,388	267,772	101,972	45,956
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	194,007	137,874	25	24,468	3,685	1,495	10,740	15,720	-
AGRICULTURAL RESEARCH SERVICE	115,911	86,795	-	19,867	1,321	301	7,279	348	-
COOPERATIVE STATE RESEARCH SERVICE	48,904	33,604	-	2,445	306	-	1,676	10,873	-
ECONOMIC RESEARCH SERVICE	3,930	-	-	-	-	-	-	3,930	-
FOREST SERVICE	24,787	17,475	25	2,156	2,058	719	1,785	569	-
STATISTICAL REPORTING SERVICE	475	-	-	-	-	475	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	25,050	-	45	5,374	11,750	155	2,703	1,875	3,148
BUREAU OF THE CENSUS	200	-	45	-	-	155	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,675	-	-	-	-	-	-	1,675	-
MARITIME ADMINISTRATION	1,430	-	-	-	-	-	1,430	-	-
NATIONAL BUREAU OF STANDARDS	6,544	-	-	5,374	-	-	1,170	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	3,148	-	-	-	-	-	-	-	3,148
NATIONAL OCEANIC AND ATMOS ADMIN	11,750	-	-	-	11,750	-	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	200	-	-	-	-	-	-	200	-
OFFICE OF TELECOMMUNICATIONS	103	-	-	-	-	-	103	-	-
DEPARTMENT OF DEFENSE, TOTAL	274,668	30,533	11,266	58,763	64,200	25,500	81,794	1,471	1,141
DEPARTMENT OF THE ARMY	40,125	13,710	2,820	5,656	4,954	3,119	9,747	119	-
DEPARTMENT OF THE NAVY	115,800	12,922	2,705	29,889	42,704	8,997	17,231	1,352	-
DEPARTMENT OF THE AIR FORCE	82,600	3,158	2,915	19,622	16,382	7,980	32,543	-	-
DEFENSE AGENCIES	36,143	743	2,826	3,596	160	5,404	22,273	-	1,141
DEPT OF HEALTH, ED, & WELFARE, TOTAL	747,114	641,886	29,065	38,318	-	3,616	6,143	23,798	4,288
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	60,147	33,937	18,525	37	-	383	-	6,922	343
HEALTH RESOURCES ADMINISTRATION	2,988	-	-	-	-	-	-	2,988	-
HEALTH SERVICES ADMINISTRATION	310	310	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	11,900	-	-	-	-	-	-	11,900	-
NATIONAL INSTITUTES OF HEALTH	670,169	607,639	10,540	38,281	-	3,233	6,143	388	3,945
OFFICE OF THE SECRETARY	1,600	-	-	-	-	-	-	1,600	-
DEPARTMENT OF THE INTERIOR, TOTAL	124,633	11,035	-	7,814	100,472	1,100	3,523	514	175
BUREAU OF MINES	800	-	-	680	-	-	120	-	-
BUREAU OF RECLAMATION	70	-	-	-	-	-	70	-	-
GEOLOGICAL SURVEY	106,435	-	-	6,871	98,477	1,087	-	-	-
NATIONAL PARK SERVICE	619	451	-	-	49	-	-	119	-
OFFICE OF THE SECRETARY	3,116	-	-	-	630	-	2,486	-	-
OFFICE OF WATER RES AND TECHNOLOGY	3,465	456	-	263	1,316	13	847	395	175
US FISH AND WILDLIFE SERVICE	10,128	10,128	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	10,000	-	-	-	-	-	-	10,000	-
LAW ENFORCEMENT ASSISTANCE ADMIN	10,000	-	-	-	-	-	-	10,000	-
DEPARTMENT OF LABOR, TOTAL	785	-	34	-	-	-	-	751	-
EMPLOYMENT AND TRAINING ADMIN	670	-	34	-	-	-	-	636	-
LABOR-MANAGEMENT SERVICES ADMIN	115	-	-	-	-	-	-	115	-
OTHER AGENCIES									
ACTION	92	-	-	-	-	-	-	92	-
CIVIL SERVICE COMMISSION	277	-	277	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	390,686	24,862	-	297,523	3,472	6,839	57,990	-	-
ENVIRONMENTAL PROTECTION AGENCY	21,200	12,932	-	6,168	2,100	-	-	-	-
FEDERAL TRADE COMMISSION	355	-	-	-	-	-	-	355	-
GENERAL SERVICES ADMINISTRATION	65	-	-	-	-	-	-	-	65
LIBRARY OF CONGRESS	150	-	-	-	-	-	-	-	150
NATIONAL AERONAUTICS & SPACE ADMIN	319,694	13,673	801	198,077	66,892	3,253	36,714	100	184
NATIONAL SCIENCE FOUNDATION	605,821	113,410	9,964	164,648	138,650	37,430	68,165	37,074	36,480
OFFICE OF TELECOMMUNICATIONS POLICY	190	58	-	-	-	-	-	132	-
SMITHSONIAN INSTITUTION	30,569	12,977	-	5,125	2,377	-	-	10,090	-
VETERANS ADMINISTRATION	9,300	7,823	1,152	-	-	-	-	-	325

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-35. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	3,011,826	1,058,312	57,453	910,724	438,055	87,763	297,140	113,380	48,999
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	213,013	151,604	27	27,159	4,017	1,585	11,847	16,774	-
AGRICULTURAL RESEARCH SERVICE	129,801	97,196	-	22,248	1,480	337	8,151	389	-
COOPERATIVE STATE RESEARCH SERVICE	51,817	35,605	-	2,591	324	-	1,776	11,521	-
ECONOMIC RESEARCH SERVICE	4,250	-	-	-	-	-	-	4,250	-
FOREST SERVICE	26,670	18,803	27	2,320	2,213	773	1,920	614	-
STATISTICAL REPORTING SERVICE	475	-	-	-	-	475	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	24,427	-	45	5,419	12,256	164	2,378	1,000	3,165
BUREAU OF THE CENSUS	209	-	45	-	-	164	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
MARITIME ADMINISTRATION	1,310	-	-	-	-	-	1,310	-	-
NATIONAL BUREAU OF STANDARDS	6,384	-	-	5,419	-	-	965	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	3,165	-	-	-	-	-	-	-	3,165
NATIONAL OCEANIC AND ATMOS ADMIN	12,256	-	-	-	12,256	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	103	-	-	-	-	-	103	-	-
DEPARTMENT OF DEFENSE, TOTAL	314,030	33,899	13,867	68,521	71,854	29,392	94,425	1,657	415
DEPARTMENT OF THE ARMY	52,630	17,245	3,228	7,901	7,230	4,112	12,788	126	-
DEPARTMENT OF THE NAVY	135,700	13,044	4,009	35,359	51,080	10,879	19,798	1,531	-
DEPARTMENT OF THE AIR FORCE	87,000	3,610	3,230	22,210	13,444	8,950	35,556	-	-
DEFENSE AGENCIES	38,700	-	3,400	3,051	100	5,451	26,285	-	415
DEPT OF HEALTH, ED, & WELFARE, TOTAL	772,672	659,504	29,485	39,646	-	3,714	6,356	29,655	4,312
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	61,250	35,294	18,579	36	-	369	-	6,741	231
HEALTH RESOURCES ADMINISTRATION	3,021	-	-	-	-	-	-	3,021	-
HEALTH SERVICES ADMINISTRATION	315	315	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	17,700	-	-	-	-	-	-	17,700	-
NATIONAL INSTITUTES OF HEALTH	688,594	623,895	10,906	39,610	-	3,345	6,356	401	4,081
OFFICE OF THE SECRETARY	1,792	-	-	-	-	-	-	1,792	-
DEPARTMENT OF THE INTERIOR, TOTAL	147,043	12,545	-	8,223	121,701	1,200	2,598	576	200
BUREAU OF MINES	800	-	-	680	-	-	120	-	-
BUREAU OF RECLAMATION	75	-	-	-	-	-	75	-	-
GEOLOGICAL SURVEY	127,846	-	-	7,243	119,433	1,170	-	-	-
NATIONAL PARK SERVICE	725	548	-	-	54	-	-	123	-
OFFICE OF THE SECRETARY	2,162	-	-	-	714	15	1,433	-	-
OFFICE OF WATER RES AND TECHNOLOGY	3,963	525	-	300	1,500	15	970	453	200
US FISH AND WILDLIFE SERVICE	11,472	11,472	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	6,600	-	-	-	-	-	-	6,600	-
LAW ENFORCEMENT ASSISTANCE ADMIN	6,600	-	-	-	-	-	-	6,600	-
DEPARTMENT OF LABOR, TOTAL	720	-	30	-	-	-	-	690	-
EMPLOYMENT AND TRAINING ADMIN	605	-	30	-	-	-	-	575	-
LABOR-MANAGEMENT SERVICES ADMIN	115	-	-	-	-	-	-	115	-
OTHER AGENCIES									
ACTION	331	-	-	-	-	-	-	331	-
CIVIL SERVICE COMMISSION	277	-	277	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	429,233	23,279	-	326,811	4,060	7,420	64,476	-	3,187
ENVIRONMENTAL PROTECTION AGENCY	18,000	10,800	-	5,500	1,700	-	-	-	-
FEDERAL TRADE COMMISSION	360	-	-	-	-	-	-	360	-
GENERAL SERVICES ADMINISTRATION	150	-	-	-	-	-	85	-	65
INTERSTATE COMMERCE COMMISSION	19	-	-	-	-	19	-	-	-
LIBRARY OF CONGRESS	157	-	-	-	-	-	-	-	157
NATIONAL AERONAUTICS & SPACE ADMIN	365,359	17,485	929	235,564	65,336	3,236	42,524	100	184
NATIONAL SCIENCE FOUNDATION	677,329	128,038	11,583	188,379	154,734	41,033	72,451	44,137	36,974
OFFICE OF TELECOMMUNICATIONS POLICY	271	100	10	-	-	-	-	161	-
SMITHSONIAN INSTITUTION	32,135	12,897	-	5,502	2,397	-	-	11,339	-
VETERANS ADMINISTRATION	9,700	8,160	1,200	-	-	-	-	-	340

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-36. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	43,672	24,957	16,911	1,804	721,557	158,909	175,061	382,817	4,770
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	23	-	23	-	21,546	-	18,506	3,040	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	17,429	-	15,111	2,318	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	2,154	-	2,154	-	-
FOREST SERVICE	23	-	23	-	1,963	-	1,241	722	-
DEPARTMENT OF COMMERCE, TOTAL	42	-	42	-	4,767	346	1,325	3,096	-
BUREAU OF THE CENSUS	42	-	42	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	4,767	346	1,325	3,096	-
DEPARTMENT OF DEFENSE, TOTAL	7,723	1,684	5,062	977	52,171	8,113	12,886	29,988	1,184
DEPARTMENT OF THE ARMY	2,417	-	1,534	883	5,209	-	2,475	2,734	-
DEPARTMENT OF THE NAVY	2,127	-	2,127	-	28,000	3,351	5,069	19,580	-
DEPARTMENT OF THE AIR FORCE	1,467	156	1,311	-	16,423	4,762	5,312	6,349	-
DEFENSE AGENCIES	1,712	1,528	90	94	2,539	-	30	1,325	1,184
DEPT OF HEALTH, ED, & WELFARE, TOTAL	25,129	16,681	8,448	-	33,559	-	33,349	210	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	15,918	10,169	5,749	-	32	-	32	-	-
NATIONAL INSTITUTES OF HEALTH	9,211	6,512	2,699	-	33,527	-	33,317	210	-
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	7,264	-	6,117	1,147	-
BUREAU OF MINES	-	-	-	-	680	-	560	120	-
GEOLOGICAL SURVEY	-	-	-	-	6,310	-	5,336	974	-
OFFICE OF WATER RES AND TECHNOLOGY	-	-	-	-	274	-	221	53	-
DEPARTMENT OF JUSTICE, TOTAL	44	-	44	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	44	-	44	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	32	-	32	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	32	-	32	-	-	-	-	-	-
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	307	-	307	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	267,401	-	53,818	213,583	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	4,084	-	3,757	327	-
NATIONAL AERONAUTICS & SPACE ADMIN	960	-	133	827	182,856	114,288	4,733	60,249	3,586
NATIONAL SCIENCE FOUNDATION	8,249	5,697	2,552	-	143,471	31,754	40,570	71,147	-
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	30	-	-	30	-
SMITHSONIAN INSTITUTION	-	-	-	-	4,408	4,408	-	-	-
VETERANS ADMINISTRATION	1,163	895	268	-	-		-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-37. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	52,629	28,672	20,359	3,598	806,278	179,583	202,516	416,368	7,811
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	25	-	25	-	24,468	-	21,032	3,436	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	19,867	-	17,224	2,643	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	2,445	-	2,445	-	-
FOREST SERVICE	25	-	25	-	2,156	-	1,363	793	-
DEPARTMENT OF COMMERCE, TOTAL	45	-	45	-	5,374	393	1,466	3,515	-
BUREAU OF THE CENSUS	45	-	45	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	5,374	393	1,466	3,515	-
DEPARTMENT OF DEFENSE, TOTAL	11,266	1,305	7,064	2,897	58,763	7,817	16,919	33,160	867
DEPARTMENT OF THE ARMY	2,820	-	1,754	1,066	5,656	-	2,668	2,988	-
DEPARTMENT OF THE NAVY	2,705	-	2,705	-	29,889	3,914	6,363	19,612	-
DEPARTMENT OF THE AIR FORCE	2,915	310	2,605	-	19,622	3,903	7,854	7,865	-
DEFENSE AGENCIES	2,826	995	-	1,831	3,596	-	34	2,695	867
DEPT OF HEALTH, ED, & WELFARE, TOTAL	29,065	19,495	9,570	-	38,318	-	38,124	194	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	18,525	12,043	6,482	-	37	-	37	-	-
NATIONAL INSTITUTES OF HEALTH	10,540	7,452	3,088	-	38,281	-	38,087	194	-
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	7,814	-	6,563	1,251	-
BUREAU OF MINES	-	-	-	-	680	-	560	120	-
GEOLOGICAL SURVEY	-	-	-	-	6,871	-	5,784	1,087	-
OFFICE OF WATER RES AND TECHNOLOGY	-	-	-	-	263	-	219	44	-
DEPARTMENT OF LABOR, TOTAL	34	-	34	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	34	-	34	-	-	-	-	-	-
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	277	-	277	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	297,523	-	60,788	236,735	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	6,168	-	5,675	493	-
NATIONAL AERONAUTICS & SPACE ADMIN	801	-	100	701	198,077	130,007	5,742	55,384	6,944
NATIONAL SCIENCE FOUNDATION	9,964	6,982	2,982	-	164,648	36,241	46,207	82,200	-
SMITHSONIAN INSTITUTION	-	-	-	-	5,125	5,125	-	-	-
VETERANS ADMINISTRATION	1,152	890	262	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-38. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	57,453	29,887	22,643	4,923	910,724	219,508	222,073	460,430	8,713
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	27	-	27	-	27,159	-	23,346	3,813	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	22,248	-	19,288	2,960	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	2,591	-	2,591	-	-
FOREST SERVICE	27	-	27	-	2,320	-	1,467	853	-
DEPARTMENT OF COMMERCE, TOTAL	45	-	45	-	5,419	393	1,516	3,510	-
BUREAU OF THE CENSUS	45	-	45	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	5,419	393	1,516	3,510	-
DEPARTMENT OF DEFENSE, TOTAL	13,867	1,049	8,724	4,094	68,521	8,632	20,811	38,103	975
DEPARTMENT OF THE ARMY	3,228	-	1,829	1,399	7,901	-	3,690	4,211	-
DEPARTMENT OF THE NAVY	4,009	-	4,009	-	35,359	4,282	8,261	22,816	-
DEPARTMENT OF THE AIR FORCE	3,230	344	2,886	-	22,210	4,350	8,860	9,000	-
DEFENSE AGENCIES	3,400	705	-	2,695	3,051	-	-	2,076	975
DEPT OF HEALTH, ED, & WELFARE, TOTAL	29,485	19,762	9,723	-	39,646	-	39,445	201	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	18,579	12,051	6,528	-	36	-	36	-	-
NATIONAL INSTITUTES OF HEALTH	10,906	7,711	3,195	-	39,610	-	39,409	201	-
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	8,223	-	6,883	1,340	-
BUREAU OF MINES	-	-	-	-	680	-	560	120	-
GEOLOGICAL SURVEY	-	-	-	-	7,243	-	6,073	1,170	-
OFFICE OF WATER RES AND TECHNOLOGY	-	-	-	-	300	-	250	50	-
DEPARTMENT OF LABOR, TOTAL	30	-	30	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	30	-	30	-	-	-	-	-	-
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	277	-	277	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	326,811	-	68,353	258,158	300
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	5,500	-	5,150	350	-
NATIONAL AERONAUTICS & SPACE ADMIN	929	-	100	829	235,564	161,244	5,547	61,335	7,438
NATIONAL SCIENCE FOUNDATION	11,583	8,146	3,437	-	188,379	43,737	51,022	93,620	-
OFFICE OF TELECOMMUNICATIONS POLICY	10	10	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	5,502	5,502	-	-	-
VETERANS ADMINISTRATION	1,200	920	280	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-39. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	877,685	707,592	27,906	118,665	23,522	354,628	119,088	140,265	87,242	8,033
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	121,665	119,715	1,950	-	-	3,301	1,474	1,135	-	692
AGRICULTURAL RESEARCH SERVICE	76,143	76,143	-	-	-	1,159	325	142	-	692
COOPERATIVE STATE RESEARCH SERVICE	29,609	27,659	1,950	-	-	269	269	-	-	-
FOREST SERVICE	15,913	15,913	-	-	-	1,873	880	993	-	-
DEPARTMENT OF COMMERCE, TOTAL	-	-	-	-	-	11,273	9,579	-	1,694	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	-	11,273	9,579	-	1,694	-
DEPARTMENT OF DEFENSE, TOTAL	26,614	4,656	18,484	3,474	-	59,956	24,831	5,045	26,387	3,693
DEPARTMENT OF THE ARMY	14,343	673	12,125	1,545	-	5,167	3,410	1,326	294	137
DEPARTMENT OF THE NAVY	10,342	3,983	6,359	-	-	34,395	2,758	2,087	25,994	3,556
DEPARTMENT OF THE AIR FORCE	1,929	-	-	1,929	-	20,295	18,663	1,632	-	-
DEFENSE AGENCIES	-	-	-	-	-	99	-	-	99	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	562,100	422,971	3,518	112,671	22,940	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	29,986	22,808	3,233	1,626	2,319	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	285	-	285	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	531,829	400,163	-	111,045	20,621	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	9,709	9,693	-	10	6	92,739	116	76,800	15,475	348
GEOLOGICAL SURVEY	-	-	-	-	-	91,208	-	75,738	15,470	-
NATIONAL PARK SERVICE	398	398	-	-	-	45	-	30	-	15
OFFICE OF THE SECRETARY	-	-	-	-	-	80	-	-	-	80
OFFICE OF WATER RES AND TECHNOLOGY	479	463	-	10	6	1,406	116	1,032	5	253
US FISH AND WILDLIFE SERVICE	8,832	8,832	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	24,381	24,381	-	-	-	2,874	-	2,874	-	-
ENVIRONMENTAL PROTECTION AGENCY	8,220	8,220	-	-	-	1,096	110	986	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	8,902	7,598	272	680	352	60,393	37,484	17,433	2,337	3,139
NATIONAL SCIENCE FOUNDATION	97,593	97,460	-	-	133	120,789	45,410	34,463	40,755	161
OFFICE OF TELECOMMUNICATIONS POLICY	45	45	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	11,031	11,031	-	-	-	2,207	84	1,529	594	-
VETERANS ADMINISTRATION	7,425	1,822	3,682	1,830	91	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-40. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENC				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,007,063	818,185	28,738	136,420	23,720	393,598	127,514	155,435	100,266	10,383
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	137,874	135,661	2,213	-	-	3,685	1,643	1,253	-	789
AGRICULTURAL RESEARCH SERVICE	86,795	86,795	-	-	-	1,321	370	162	-	789
COOPERATIVE STATE RESEARCH SERVICE	33,604	31,391	2,213	-	-	306	306	-	-	-
FOREST SERVICE	17,475	17,475	-	-	-	2,058	967	1,091	-	-
DEPARTMENT OF COMMERCE, TOTAL	-	-	-	-	-	11,750	9,991	-	1,759	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	-	11,750	9,991	-	1,759	-
DEPARTMENT OF DEFENSE, TOTAL	30,533	7,970	17,911	4,652	-	64,200	21,529	5,512	32,879	4,280
DEPARTMENT OF THE ARMY	13,710	833	11,383	1,494	-	4,954	3,182	1,350	288	134
DEPARTMENT OF THE NAVY	12,922	6,394	6,528	-	-	42,704	3,417	2,710	32,431	4,146
DEPARTMENT OF THE AIR FORCE	3,158	-	-	3,158	-	16,382	14,930	1,452	-	-
DEFENSE AGENCIES	743	743	-	-	-	160	-	-	160	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	641,886	485,624	4,380	128,840	23,042	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	33,937	25,132	4,070	1,968	2,767	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	310	-	310	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	607,639	460,492	-	126,872	20,275	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	11,035	11,017	-	9	9	100,472	113	84,794	14,668	900
GEOLOGICAL SURVEY	-	-	-	-	-	98,477	-	83,818	14,659	-
NATIONAL PARK SERVICE	451	451	-	-	-	49	-	32	-	17
OFFICE OF THE SECRETARY	-	-	-	-	-	630	-	10	-	620
OFFICE OF WATER RES AND TECHNOLOGY	456	438	-	9	9	1,316	113	934	9	263
US FISH AND WILDLIFE SERVICE	10,128	10,128	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	24,862	24,862	-	-	-	3,472	-	3,472	-	-
ENVIRONMENTAL PROTECTION AGENCY	12,932	12,932	-	-	-	2,100	120	1,980	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	13,673	11,926	354	989	404	66,892	41,916	17,237	3,419	4,320
NATIONAL SCIENCE FOUNDATION	113,410	113,238	-	-	172	138,650	52,102	39,550	46,904	94
OFFICE OF TELECOMMUNICATIONS POLICY	58	58	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	12,977	12,977	-	-	-	2,377	103	1,637	637	-
VETERANS ADMINISTRATION	7,823	1,920	3,880	1,930	93	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-41. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,058,312	860,003	32,365	142,072	23,872	438,055	132,290	183,823	109,749	12,193
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	151,604	149,259	2,345	-	-	4,017	1,779	1,355	-	883
AGRICULTURAL RESEARCH SERVICE	57,196	57,196	-	-	-	1,480	415	182	-	883
COOPERATIVE STATE RESEARCH SERVICE	35,605	33,260	2,345	-	-	324	324	-	-	-
FOREST SERVICE	18,803	18,803	-	-	-	2,213	1,040	1,173	-	-
DEPARTMENT OF COMMERCE, TOTAL	-	-	-	-	-	12,256	10,161	-	2,095	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	-	12,256	10,161	-	2,095	-
DEPARTMENT OF DEFENSE, TOTAL	33,899	7,135	21,242	5,522	-	71,854	20,708	6,579	39,757	4,810
DEPARTMENT OF THE ARMY	17,245	1,155	14,178	1,912	-	7,230	4,917	1,888	290	135
DEPARTMENT OF THE NAVY	13,044	5,980	7,064	-	-	51,080	3,847	3,191	39,367	4,675
DEPARTMENT OF THE AIR FORCE	3,610	-	-	3,610	-	13,444	11,944	1,500	-	-
DEFENSE AGENCIES	-	-	-	-	-	100	-	-	100	-
DEPT OF HEALTH, ED. & WELFARE, TOTAL	659,504	499,282	4,378	133,683	22,161	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	35,294	26,174	4,063	2,409	2,648	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	315	-	315	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	623,895	473,108	-	131,274	19,513	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	12,545	12,520	-	10	15	121,701	125	105,831	14,709	1,036
GEOLOGICAL SURVEY	-	-	-	-	-	119,433	-	104,734	14,699	-
NATIONAL PARK SERVICE	548	548	-	-	-	54	-	32	-	22
OFFICE OF THE SECRETARY	-	-	-	-	-	714	-	-	-	714
OFFICE OF WATER RES AND TECHNOLOGY	525	500	-	10	15	1,500	125	1,065	10	300
US FISH AND WILDLIFE SERVICE	11,472	11,472	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	23,279	23,279	-	-	-	4,060	-	4,060	-	-
ENVIRONMENTAL PROTECTION AGENCY	10,800	10,800	-	-	-	1,700	90	1,610	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	17,486	14,882	354	846	1,404	65,336	39,798	17,508	2,710	5,320
NATIONAL SCIENCE FOUNDATION	128,038	127,846	-	-	192	154,734	59,525	45,229	49,836	144
OFFICE OF TELECOMMUNICATIONS POLICY	100	100	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	12,897	12,897	-	-	-	2,397	104	1,651	642	-
VETERANS ADMINISTRATION	8,160	2,003	4,046	2,011	100	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-42. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	239,955	29,797	11,529	12,720	7,685	43,039	14,854	97,429	22,902
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	9,489	-	-	449	1,540	54	435	-	7,011
AGRICULTURAL RESEARCH SERVICE	6,386	-	-	336	976	31	254	-	4,789
COOPERATIVE STATE RESEARCH SERVICE	1,477	-	-	-	-	-	-	-	1,477
FOREST SERVICE	1,626	-	-	113	564	23	181	-	745
DEPARTMENT OF COMMERCE, TOTAL	2,311	-	-	-	640	261	145	942	323
MARITIME ADMINISTRATION	1,164	-	-	-	640	145	145	-	234
NATIONAL BUREAU OF STANDARDS	1,031	-	-	-	-	-	-	942	89
OFFICE OF TELECOMMUNICATIONS	116	-	-	-	-	116	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	77,747	10,210	4,899	24	148	25,550	5,566	31,251	99
DEPARTMENT OF THE ARMY	8,763	801	24	24	148	3,673	2,263	1,830	-
DEPARTMENT OF THE NAVY	12,870	995	-	-	-	684	3,303	7,888	-
DEPARTMENT OF THE AIR FORCE	35,837	8,414	4,875	-	-	13,092	-	9,456	-
DEFENSE AGENCIES	20,277	-	-	-	-	8,101	-	12,077	99
DEPT OF HEALTH, ED, & WELFARE, TOTAL	5,376	-	-	-	-	-	-	-	5,376
NATIONAL INSTITUTES OF HEALTH	5,376	-	-	-	-	-	-	-	5,376
DEPARTMENT OF THE INTERIOR, TOTAL	1,810	-	-	8	834	71	695	125	77
BUREAU OF MINES	120	-	-	-	-	-	-	120	-
BUREAU OF RECLAMATION	70	-	-	-	-	70	-	-	-
OFFICE OF THE SECRETARY	895	-	-	-	200	-	695	-	-
OFFICE OF WATER RES AND TECHNOLOGY	725	-	-	8	634	1	-	5	77
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	45,182	-	-	-	-	-	-	45,182	-
ENVIRONMENTAL PROTECTION AGENCY	300	-	-	300	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	35,759	19,587	6,630	977	96	2,112	890	4,454	1,013
NATIONAL SCIENCE FOUNDATION	61,912	-	-	10,962	4,427	14,972	7,123	15,475	8,953
OFFICE OF TELECOMMUNICATIONS POLICY	69	-	-	-	-	19	-	-	50

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-43. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	267,772	29,716	11,786	15,087	7,294	46,624	18,902	113,916	24,447
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	10,740	-	-	507	1,733	59	487	-	7,954
AGRICULTURAL RESEARCH SERVICE	7,279	-	-	383	1,113	34	289	-	5,460
COOPERATIVE STATE RESEARCH SERVICE	1,676	-	-	-	-	-	-	-	1,676
FOREST SERVICE	1,785	-	-	124	620	25	198	-	818
DEPARTMENT OF COMMERCE, TOTAL	2,703	-	-	-	429	246	143	1,069	816
MARITIME ADMINISTRATION	1,430	-	-	-	429	143	143	-	715
NATIONAL BUREAU OF STANDARDS	1,170	-	-	-	-	-	-	1,069	101
OFFICE OF TELECOMMUNICATIONS	103	-	-	-	-	103	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	81,794	9,667	4,427	-	95	27,414	6,492	33,674	25
DEPARTMENT OF THE ARMY	9,747	754	-	-	95	4,025	2,292	2,581	-
DEPARTMENT OF THE NAVY	17,231	1,273	-	-	-	2,794	4,200	8,964	-
DEPARTMENT OF THE AIR FORCE	32,543	7,640	4,427	-	-	11,889	-	8,587	-
DEFENSE AGENCIES	22,273	-	-	-	-	8,706	-	13,542	25
DEPT OF HEALTH, ED, & WELFARE, TOTAL	6,143	-	-	-	-		-	-	6,143
NATIONAL INSTITUTES OF HEALTH	6,143	-	-	-	-	-	-	-	6,143
DEPARTMENT OF THE INTERIOR, TOTAL	3,523	-	-	88	463	139	2,221	130	482
BUREAU OF MINES	120	-	-	-	-	-	-	120	-
BUREAU OF RECLAMATION	70	-	-	-	-	70	-	-	-
OFFICE OF THE SECRETARY	2,486	-	-	-	200	65	2,221	-	-
OFFICE OF WATER RES AND TECHNOLOGY	847	-	-	88	263	4	-	10	482
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	57,990	-	-	526	-	-	212	56,936	316
NATIONAL AERONAUTICS & SPACE ADMIN	36,714	20,049	7,359	1,201	78	1,686	420	4,749	1,172
NATIONAL SCIENCE FOUNDATION	68,165	-	-	12,765	4,496	17,080	8,927	17,358	7,539

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-44. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	297,140	34,488	13,008	16,475	7,928	54,602	19,914	121,118	29,607
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	11,847	-	-	561	1,913	66	537	-	8,770
AGRICULTURAL RESEARCH SERVICE	8,151	-	-	428	1,246	39	324	-	6,114
COOPERATIVE STATE RESEARCH SERVICE	1,776	-	-	-	-	-	-	-	1,776
FOREST SERVICE	1,920	-	-	133	667	27	213	-	880
DEPARTMENT OF COMMERCE, TOTAL	2,378	-	-	-	393	234	131	864	756
MARITIME ADMINISTRATION	1,310	-	-	-	393	131	131	-	655
NATIONAL BUREAU OF STANDARDS	965	-	-	-	-	-	-	864	101
OFFICE OF TELECOMMUNICATIONS	103	-	-	-	-	103	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	94,425	10,814	4,837	-	105	33,789	7,738	37,142	-
DEPARTMENT OF THE ARMY	12,788	1,026	-	-	105	5,323	2,904	3,430	-
DEPARTMENT OF THE NAVY	19,798	1,441	-	-	-	3,267	4,834	10,256	-
DEPARTMENT OF THE AIR FORCE	35,556	8,347	4,837	-	-	12,990	-	9,382	-
DEFENSE AGENCIES	26,283	-	-	-	-	12,209	-	14,074	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	6,356	-	-	-	-	-	-	-	6,356
NATIONAL INSTITUTES OF HEALTH	6,356	-	-	-	-	-	-	-	6,356
DEPARTMENT OF THE INTERIOR, TOTAL	2,598	-	-	100	500	180	1,133	135	550
BUREAU OF MINES	120	-	-	-	-	-	-	120	-
BUREAU OF RECLAMATION	75	-	-	-	-	75	-	-	-
OFFICE OF THE SECRETARY	1,433	-	-	-	200	100	1,133	-	-
OFFICE OF WATER RES AND TECHNOLOGY	970	-	-	100	300	5	-	15	550
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	64,476	-	-	700	-	-	200	63,206	370
GENERAL SERVICES ADMINISTRATION	85	-	-	-	85	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	42,524	23,674	8,171	1,334	78	1,880	420	5,285	1,682
NATIONAL SCIENCE FOUNDATION	72,451	-	-	13,780	4,854	18,453	9,755	14,486	11,123

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-45. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	70,155	39,047	27,912	3,196	85,240	6,421	25,634	2,999	16,478	33,708
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,350	1,350	-	-	13,997	-	13,005	-	885	107
AGRICULTURAL RESEARCH SERVICE	264	264	-	-	305	-	305	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	9,579	-	9,072	-	507	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	3,594	-	3,199	-	288	107
FOREST SERVICE	655	655	-	-	519	-	429	-	90	-
STATISTICAL REPORTING SERVICE	431	431	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	140	140	-	-	1,675	-	1,675	-	-	-
BUREAU OF THE CENSUS	140	140	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,675	-	1,675	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	22,548	11,998	10,550	-	1,314	7	-	-	1,307	-
DEPARTMENT OF THE ARMY	3,021	2,821	200	-	120	7	-	-	113	-
DEPARTMENT OF THE NAVY	6,972	4,378	2,594	-	1,194	-	-	-	1,194	-
DEPARTMENT OF THE AIR FORCE	5,649	4,799	850	-	-	-	-	-	-	-
DEFENSE AGENCIES	6,906	-	6,906	-	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	3,160	3,160	-	-	19,411	333	2,562	61	7,530	8,925
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	335	335	-	-	6,067	333	100	-	4,904	730
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	3,064	-	184	61	31	2,788
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	5,081	-	-	-	-	5,081
NATIONAL INSTITUTES OF HEALTH	2,825	2,825	-	-	326	-	-	-	-	326
OFFICE OF THE SECRETARY	-	-	-	-	4,873	-	2,278	-	2,595	-
DEPARTMENT OF THE INTERIOR, TOTAL	988	146	828	14	532	57	160	145	120	50
GEOLOGICAL SURVEY	974	146	828	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	112	54	-	-	58	-
OFFICE OF WATER RES AND TECHNOLOGY	14	-	-	14	420	3	160	145	62	50
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	4,456	-	-	486	3,670	300
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	4,456	-	-	486	3,670	300
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	926	-	825	-	101	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	600	-	499	-	101	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	326	-	326	-	-	-
OTHER AGENCIES										
ACTION	-	-	-	-	32	-	-	-	32	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	5,952	3,862	2,090	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	300	-	300	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	3,172	-	-	3,172	39	-	1	38	-	-
NATIONAL SCIENCE FOUNDATION	32,845	18,391	14,444	10	34,217	3,449	6,998	2,249	2,733	18,788
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	252	-	108	20	100	24
SMITHSONIAN INSTITUTION	-	-	-	-	8,089	2,575	-	-	-	5,514

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-46. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	79,388	46,362	29,560	3,466	101,972	8,360	27,828	2,564	21,292	41,928
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,495	1,495	-	-	15,720	-	14,614	-	988	118
AGRICULTURAL RESEARCH SERVICE	301	301	-	-	348	-	348	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	10,873	-	10,297	-	576	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	3,930	-	3,498	-	314	118
FOREST SERVICE	719	719	-	-	569	-	471	-	98	-
STATISTICAL REPORTING SERVICE	475	475	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	155	155	-	-	1,875	-	1,875	-	-	-
BUREAU OF THE CENSUS	155	155	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,675	-	1,675	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	-	-	-	-	200	-	200	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	25,500	15,420	9,880	200	1,471	-	8	-	1,463	-
DEPARTMENT OF THE ARMY	3,119	2,960	159	-	119	-	8	-	111	-
DEPARTMENT OF THE NAVY	8,997	5,580	3,417	-	1,352	-	-	-	1,352	-
DEPARTMENT OF THE AIR FORCE	7,980	6,880	1,100	-	-	-	-	-	-	-
DEFENSE AGENCIES	5,404	-	5,204	200	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	3,616	3,616	-	-	23,798	373	1,397	60	6,140	15,828
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	383	383	-	-	6,922	373	113	-	5,614	822
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	2,988	-	180	60	30	2,718
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	11,900	-	-	-	-	11,900
NATIONAL INSTITUTES OF HEALTH	3,233	3,233	-	-	388	-	-	-	-	388
OFFICE OF THE SECRETARY	-	-	-	-	1,600	-	1,104	-	496	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,100	163	924	13	514	59	149	132	117	57
GEOLOGICAL SURVEY	1,087	163	924	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	119	55	-	-	64	-
OFFICE OF WATER RES AND TECHNOLOGY	13	-	-	13	395	4	149	132	53	57
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	10,000		-	-	9,200	800
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	10,000	-	-	-	9,200	800
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	751	-	651	-	100	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	636	-	536	-	100	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	115	-	115	-	-	-
OTHER AGENCIES										
ACTION	-	-	-	-	92	-	-	-	92	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	6,839	4,314	2,525	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	355		355	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	3,253	-	-	3,253	100	-	68	30	-	2
NATIONAL SCIENCE FOUNDATION	37,430	21,199	16,231	-	37,074	3,880	8,624	2,342	3,192	19,036
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	132	-	87	-	-	45
SMITHSONIAN INSTITUTION	-	-	-	-	10,090	4,048	-	-	-	6,042

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-47. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	87,763	52,245	32,067	3,451	113,380	10,269	28,738	2,988	18,862	52,523
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,585	1,585	-	-	16,774	-	15,588	-	1,058	128
AGRICULTURAL RESEARCH SERVICE	337	337	-	-	389	-	389	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	11,521	-	10,911	-	610	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	4,250	-	3,781	-	341	128
FOREST SERVICE	773	773	-	-	614	-	507	-	107	-
STATISTICAL REPORTING SERVICE	475	475	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	164	164	-	-	1,000	-	1,000	-	-	-
BUREAU OF THE CENSUS	164	164	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,000	-	1,000	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	29,392	18,382	10,810	200	1,657	-	30	-	1,627	-
DEPARTMENT OF THE ARMY	4,112	3,715	397	-	126	-	30	-	96	-
DEPARTMENT OF THE NAVY	10,879	6,917	3,962	-	1,531	-	-	-	1,531	-
DEPARTMENT OF THE AIR FORCE	8,950	7,750	1,200	-	-	-	-	-	-	-
DEFENSE AGENCIES	5,451	-	5,251	200	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	3,714	3,714	-	-	29,655	366	1,530	61	6,047	21,651
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	369	369	-	-	6,741	366	113	-	5,461	801
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	3,021	-	181	61	30	2,749
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	17,700	-	-	-	-	17,700
NATIONAL INSTITUTES OF HEALTH	3,345	3,345	-	-	401	-	-	-	-	401
OFFICE OF THE SECRETARY	-	-	-	-	1,792	-	1,236	-	556	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,200	175	1,010	15	576	61	170	150	130	65
GEOLOGICAL SURVEY	1,170	175	995	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	123	56	-	-	67	-
OFFICE OF THE SECRETARY	15	-	15	-	-	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	15	-	-	15	453	5	170	150	63	65
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	6,600	-	-	-	6,072	528
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	6,600	-	-	-	6,072	528
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	690	-	599	-	91	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	575	-	484	-	91	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	115	-	115	-	-	-
OTHER AGENCIES										
ACTION	-	-	-	-	331	-	92	-	239	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	7,420	5,070	2,350	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	360		360	-	-	-
INTERSTATE COMMERCE COMMISSION	19	-	19	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	3,236	-	-	3,236	100	-	68	30	-	2
NATIONAL SCIENCE FOUNDATION	41,033	23,155	17,878	-	44,137	4,713	9,140	2,747	3,598	23,939
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	161	-	161	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	11,339	5,129	-	-	-	6,210

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-48. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	5,447,818	2,149,059	1,255,900	139,415	1,130,488	264,815	341,484	50,297	82,431	33,929
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	270,853	194,105	221	-	72,158	-	189	68	498	3,614
AGRICULTURAL RESEARCH SERVICE	125,898	119,958	102	-	1,983	-	189	-	52	3,614
COOPERATIVE STATE RESEARCH SERVICE	70,301	1,873	-	-	68,156	-	-	-	272	-
ECONOMIC RESEARCH SERVICE	20,368	19,764	-	-	604	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1,205	1,204	-	-	1	-	-	-	-	-
FOREST SERVICE	51,931	50,263	119	-	1,307	-	-	68	174	-
NATIONAL AGRICULTURAL LIBRARY	8	3	-	-	5	-	-	-	-	-
STATISTICAL REPORTING SERVICE	1,142	1,040	-	-	102	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	133,439	98,880	9,682	-	17,561	207	1,671	100	5,323	15
BUREAU OF THE CENSUS	1,955	1,780	-	-	175	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	388	153	-	-	235	-	-	-	-	-
MARITIME ADMINISTRATION	3,812	677	2,474	-	391	-	263	-	-	7
NATIONAL BUREAU OF STANDARDS	31,732	31,637	-	-	53	-	42	-	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	1,129	953	-	-	176	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	93,597	63,158	7,190	-	16,531	207	1,137	100	5,266	8
OFFICE OF MINORITY BUSINESS ENTERP	405	101	18	-	-	-	229	-	57	-
OFFICE OF TELECOMMUNICATIONS	234	234	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	187	187	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,539,319	571,018	763,564	563	108,047	43,007	39,333	12,271	-	1,516
DEPARTMENT OF THE ARMY	267,385	193,240	55,515	-	11,390	102	6,739	102	-	297
DEPARTMENT OF THE NAVY	219,000	142,206	45,826	-	9,936	18,210	2,070	578	-	174
DEPARTMENT OF THE AIR FORCE	740,000	158,093	522,505	-	49,927	744	7,849	-	-	482
DEFENSE AGENCIES	312,234	77,374	139,073	531	36,714	23,951	22,500	11,528	-	563
DEPARTMENTWIDE FUNDS	700	105	245	32	80	-	175	63	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,510,521	332,152	62,589	35,990	763,336	4,244	227,959	3,248	62,005	18,998
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	84,060	8,414	4,613	-	48,902	-	12,167	281	9,093	590
CENTER FOR DISEASE CONTROL	49,596	34,471	2,616	-	2,941	-	5,945	-	82	3,541
FOOD AND DRUG ADMINISTRATION	37,077	22,810	2,765	-	7,682	-	1,007	-	1,857	956
HEALTH RESOURCES ADMINISTRATION	27,907	6,850	248	-	12,762	-	7,395	-	652	-
HEALTH SERVICES ADMINISTRATION	9,224	3,583	-	-	2,528	-	1,209	-	708	1,196
NATIONAL INSTITUTE OF EDUCATION	5,717	1,036	357	-	1,517	-	2,158	-	649	-
NATIONAL INSTITUTES OF HEALTH	1,193,340	244,194	42,733	35,990	656,943	4,244	178,845	2,435	17,039	10,917
OFFICE OF EDUCATION	21,428	136	2,371	-	9,916	-	3,958	-	5,047	-
OFFICE OF HUMAN DEVELOPMENT	34,624	2,563	2,330	-	16,953	-	8,764	-	2,216	1,798
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	75	-	-	-	-	659	303	-	-
OFFICE OF THE SECRETARY	18,831	562	2,827	-	604	-	4,032	-	10,806	-
SOCIAL AND REHABILITATION SERVICE	18,580	514	86	-	2,378	-	1,786	-	13,816	-
SOCIAL SECURITY ADMINISTRATION	9,100	6,944	1,643	-	210	-	34	229	40	-
DEPT OF HOUSING & URBAN DEVELOPMENT	36,945	11,106	14,011	-	1,534	-	2,807	7,487	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	127,213	76,434	34,215	-	15,648	-	-	-	846	70
BONNEVILLE POWER ADMINISTRATION	462	125	309	-	28	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	653	235	-	-	418	-	-	-	-	-
BUREAU OF MINES	72,500	39,439	28,941	-	4,120	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	20	20	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	7,855	4,797	1,615	-	713	-	-	-	730	-
GEOLOGICAL SURVEY	20,662	20,161	343	-	101	-	-	-	57	-
NATIONAL PARK SERVICE	8,717	4,564	390	-	3,746	-	-	-	17	-
OFFICE OF THE SECRETARY	70	-	-	-	-	-	-	-	-	70
OFFICE OF WATER RES AND TECHNOLOGY	10,386	1,205	2,617	-	6,522	-	-	-	42	-
US FISH AND WILDLIFE SERVICE	5,888	5,888	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	13,817	2,079	132	-	1,853	-	7,397	412	1,944	-
DRUG ENFORCEMENT ADMINISTRATION	500	100	-	-	300	-	100	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	133	1	132	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	13,184	1,978	-	-	1,553	-	7,297	412	1,944	-
DEPARTMENT OF LABOR, TOTAL	17,042	8,876	4,055	-	2,237	130	1,744	-	-	-
BUREAU OF LABOR STATISTICS	776	776	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	6,912	2,445	1,382	-	1,520	-	1,565	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,268	4,268	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	405	274	-	-	131	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	2,900	300	2,600	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,781	813	73	-	586	130	179	-	-	-
DEPARTMENT OF STATE, TOTAL	25,128	5,316	1,052	-	9,890	-	3,482	89	257	5,042
DEPARTMENTAL FUNDS	1,121	217	98	-	308	-	152	89	257	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	24,007	5,099	954	-	9,582	-	3,330	-	-	5,042

CONTINUED ON NEXT PAGE

TABLE C-48. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPT OF TRANSPORTATION, TOTAL	31,100	10,819	14,331	-	2,451	10	1,108	90	2,291	-
FEDERAL AVIATION ADMINISTRATION	3,600	641	2,639	-	230	-	-	90	-	-
FEDERAL HIGHWAY ADMINISTRATION	1,900	188	480	-	633	-	434	-	165	-
FEDERAL RAILROAD ADMINISTRATION	8,600	6,703	1,845	-	52	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,500	272	7,149	-	1,206	-	485	-	788	-
OFFICE OF THE SECRETARY	3,900	1,545	904	-	258	-	142	-	1,051	-
US COAST GUARD	2,600	1,187	1,294	-	72	-	47	-	-	-
URBAN MASS TRANSPORTATION ADMIN	600	283	20	-	-	10	-	-	287	-
DEPARTMENT OF THE TREASURY, TOTAL	1,474	1,474	-	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,474	1,474	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	43	8	15	-	-	-	20	-	-	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,026	1,026	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	719	20	684	-	5	-	-	-	10	-
CIVIL AERONAUTICS BOARD	445	445	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	820	820	-	-	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,477	1,595	422	-	736	-	390	-	334	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	400,709	21,236	54,181	49,435	48,053	186,035	22,102	19,036	220	411
ENVIRONMENTAL PROTECTION AGENCY	141,695	77,300	35,836	-	16,622	-	4,274	307	6,155	1,201
FEDERAL COMMUNICATIONS COMMISSION	1,534	986	548	-	-	-	-	-	-	-
FEDERAL ENERGY ADMINISTRATION	1,048	295	527	-	226	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	782	748	-	-	34	-	-	-	-	-
FEDERAL TRADE COMMISSION	550	550	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	296	27	241	-	-	-	28	-	-	-
INTERSTATE COMMERCE COMMISSION	123	123	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	256	256	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	929,632	633,466	244,217	-	30,679	16,724	2,638	1,160	135	613
NATIONAL SCIENCE FOUNDATION	72,142	5,666	8,170	307	36,837	2,958	12,946	1,520	2,361	1,377
NUCLEAR REGULATORY COMMISSION	88,432	7,430	6,548	52,970	2,400	11,500	2,400	4,060	52	1,072
OFFICE OF TELECOMMUNICATIONS POLICY	1,500	1,200	222	-	-	-	78	-	-	-
SMALL BUSINESS ADMINISTRATION	52	5	-	-	47	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	16,466	5,688	-	-	108	-	10,670	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,354	84	437	150	26	-	248	449	-	-
US INFORMATION AGENCY	99	99	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	1,500	1,500	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	76,227	76,227	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-49. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	6,098,609	2,370,913	1,403,583	173,206	1,254,913	316,551	382,047	42,267	108,915	46,214
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	307,331	222,106	120	-	80,423	-	-	70	499	4,113
AGRICULTURAL RESEARCH SERVICE	143,508	137,419	-	-	1,976	-	-	-	-	4,113
COOPERATIVE STATE RESEARCH SERVICE	79,791	3,042	-	-	76,430	-	-	-	319	-
ECONOMIC RESEARCH SERVICE	22,270	22,034	-	-	236	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1,335	1,330	-	-	5	-	-	-	-	-
FOREST SERVICE	59,102	57,072	120	-	1,660	-	-	70	180	-
STATISTICAL REPORTING SERVICE	1,325	1,209	-	-	116	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	149,583	112,729	6,285	-	21,217	751	1,916	131	6,306	248
BUREAU OF THE CENSUS	2,092	1,910	-	-	182	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	391	47	-	-	105	-	59	-	180	-
MARITIME ADMINISTRATION	3,039	608	1,975	-	304	-	152	-	-	-
NATIONAL BUREAU OF STANDARDS	36,122	35,934	-	-	50	-	40	-	-	98
NATIONAL FIRE PREV & CONTROL ADMIN	1,466	1,232	-	-	234	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	105,751	72,426	4,300	-	20,342	751	1,525	131	6,126	150
OFFICE OF MINORITY BUSINESS ENTERP	200	50	10	-	-	-	140	-	-	-
OFFICE OF TELECOMMUNICATIONS	299	299	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	223	223	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,677,033	639,590	813,764	399	110,615	57,705	41,868	11,939	-	1,153
DEPARTMENT OF THE ARMY	335,165	240,583	71,537	-	12,849	90	9,798	-	-	328
DEPARTMENT OF THE NAVY	239,000	147,622	44,093	-	7,436	36,169	3,035	566	-	79
DEPARTMENT OF THE AIR FORCE	735,000	163,080	504,199	-	58,051	1,014	8,090	-	-	566
DEFENSE AGENCIES	366,948	88,170	193,620	359	32,175	20,432	20,720	11,292	-	180
DEPARTMENTWIDE FUNDS	900	135	315	40	104	-	225	81	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,682,940	363,338	74,780	40,210	841,046	4,967	244,147	2,221	81,514	30,717
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	91,967	9,190	4,251	-	53,750	-	15,242	-	8,978	556
CENTER FOR DISEASE CONTROL	60,440	42,045	3,271	-	5,000	-	5,931	-	100	4,093
FOOD AND DRUG ADMINISTRATION	42,828	26,339	3,341	-	8,153	-	1,401	-	1,800	1,794
HEALTH RESOURCES ADMINISTRATION	30,006	7,166	573	-	14,400	-	7,153	-	714	-
HEALTH SERVICES ADMINISTRATION	13,183	3,880	-	-	2,537	-	1,103	-	805	4,858
NATIONAL INSTITUTE OF EDUCATION	13,000	2,340	780	-	3,519	-	4,541	-	1,820	-
NATIONAL INSTITUTES OF HEALTH	1,295,659	260,427	49,235	40,210	716,615	4,967	185,109	2,221	22,508	14,367
OFFICE OF EDUCATION	27,500	72	2,934	-	9,820	-	3,074	-	12,000	-
OFFICE OF HUMAN DEVELOPMENT	49,555	2,960	3,422	-	23,839	-	11,528	-	2,797	5,049
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	75	-	-	-	-	962	-	-	-
OFFICE OF THE SECRETARY	18,400	552	2,760	-	736	-	3,864	-	10,488	-
SOCIAL AND REHABILITATION SERVICE	29,325	750	2,655	-	2,227	-	4,239	-	19,454	-
SOCIAL SECURITY ADMINISTRATION	9,600	7,542	1,558	-	450	-	-	-	50	-
DEPT OF HOUSING & URBAN DEVELOPMENT	34,100	9,721	12,973	-	2,823	-	8,583	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	140,384	80,482	41,620	-	15,594	-	-	-	882	1,806
BONNEVILLE POWER ADMINISTRATION	220	80	140	-	-	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	820	345	-	-	475	-	-	-	-	-
BUREAU OF MINES	78,900	40,400	34,000	-	4,500	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	20	20	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	9,888	4,799	3,103	-	1,414	-	-	-	572	-
GEOLOGICAL SURVEY	24,407	21,870	2,215	-	82	-	-	-	240	-
NATIONAL PARK SERVICE	9,279	4,743	395	-	4,121	-	-	-	20	-
OFFICE OF THE SECRETARY	1,806	-	-	-	-	-	-	-	-	1,806
OFFICE OF WATER RES AND TECHNOLOGY	8,292	1,473	1,767	-	5,002	-	-	-	50	-
US FISH AND WILDLIFE SERVICE	6,752	6,752	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	16,197	2,570	385	-	3,474	-	8,738	-	1,030	-
BUREAU OF PRISONS	257	55	-	-	197	-	15	-	30	-
DRUG ENFORCEMENT ADMINISTRATION	500	200	-	-	300	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	400	15	365	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	15,000	2,300	-	-	2,977	-	8,723	-	1,000	-
DEPARTMENT OF LABOR, TOTAL	20,849	11,800	5,104	-	2,328	100	1,064	-	453	-
BUREAU OF LABOR STATISTICS	896	896	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	6,032	3,064	965	-	1,025	-	525	-	453	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,535	5,535	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	2,774	884	1,102	-	500	-	288	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3,300	500	2,800	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	2,312	921	237	-	803	100	251	-	-	-
DEPARTMENT OF STATE, TOTAL	32,211	8,131	269	-	17,992	-	2,822	-	-	3,097
DEPARTMENTAL FUNDS	1,332	235	163	-	490	-	444	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	30,979	7,896	106	-	17,502	-	2,378	-	-	3,097

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TABLE C-45. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPT OF TRANSPORTATION, TOTAL	46,000	12,372	23,219	-	2,694	15	3,239	90	4,371	-
FEDERAL AVIATION ADMINISTRATION	5,100	908	3,776	-	326	-	-	90	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	198	505	-	667	-	457	-	173	-
FEDERAL RAILROAD ADMINISTRATION	8,800	6,859	1,863	-	78	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	21,000	1,045	13,744	-	1,200	-	2,540	-	2,471	-
OFFICE OF THE SECRETARY	5,000	1,981	1,159	-	331	-	182	-	1,347	-
US COAST GUARD	3,300	1,006	2,142	-	92	-	60	-	-	-
URBAN MASS TRANSPORTATION ADMIN	800	375	30	-	-	15	-	-	380	-
DEPARTMENT OF THE TREASURY, TOTAL	1,503	1,553	-	-	-	-	-	350	-	-
BUREAU OF ALCOHOL TOBACCO & FIREARMS	440	90	-	-	-	-	-	350	-	-
BUREAU OF ENGRAVING AND PRINTING	1,463	1,463	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	2	-	-	-	-	-	2	-	-	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,172	1,172	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	800	24	760	-	6	-	-	-	10	-
CIVIL AERONAUTICS BOARD	496	496	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	740	740	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,400	-	-	-	-	-	1,400	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,302	931	1,114	-	68	-	841	-	348	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	489,017	30,780	64,268	62,090	66,633	217,649	25,833	21,002	333	429
ENVIRONMENTAL PROTECTION AGENCY	193,400	93,009	60,000	-	22,360	-	7,420	500	8,000	2,111
FEDERAL COMMUNICATIONS COMMISSION	2,060	1,527	533	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	995	927	-	-	68	-	-	-	-	-
FEDERAL TRADE COMMISSION	755	755	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	96	46	20	-	-	-	30	-	-	-
INTERSTATE COMMERCE COMMISSION	618	118	445	-	55	-	-	-	-	-
LIBRARY OF CONGRESS	225	225	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	990,563	659,378	280,123	-	29,964	16,543	2,791	1,087	139	538
NATIONAL SCIENCE FOUNDATION	68,661	5,192	9,533	347	33,802	1,691	11,189	125	4,780	2,002
NUCLEAR REGULATORY COMMISSION	113,888	8,948	7,065	70,020	3,418	17,120	2,545	4,522	250	-
OFFICE OF TELECOMMUNICATIONS POLICY	2,109	1,740	211	-	100	-	58	-	-	-
SMALL BUSINESS ADMINISTRATION	1,027	882	145	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	27,478	10,440	-	-	133	-	16,905	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,165	182	847	140	100	10	656	230	-	-
US INFORMATION AGENCY	134	134	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	2,800	2,800	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	86,075	86,075	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-50. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	6,478,637	2,446,476	1,605,785	204,219	1,320,529	312,513	399,846	45,473	109,021	34,775
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	334,857	233,616	120	-	96,953	-	-	70	523	3,575
AGRICULTURAL RESEARCH SERVICE	160,706	143,346	-	-	13,785	-	-	-	-	3,575
COOPERATIVE STATE RESEARCH SERVICE	84,544	3,205	-	-	80,996	-	-	-	343	-
ECONOMIC RESEARCH SERVICE	24,081	23,845	-	-	236	-	-	-	-	-
FARMER COOPERATIVE SERVICE	1,574	1,574	-	-	-	-	-	-	-	-
FOREST SERVICE	62,627	60,437	120	-	1,820	-	-	70	180	-
STATISTICAL REPORTING SERVICE	1,325	1,209	-	-	116	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	150,449	116,758	5,504	-	18,246	-	2,664	234	6,853	190
BUREAU OF THE CENSUS	2,186	1,991	-	-	195	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,000	50	60	-	240	-	540	-	110	-
MARITIME ADMINISTRATION	2,785	557	1,810	-	279	-	139	-	-	-
NATIONAL BUREAU OF STANDARDS	34,286	34,106	-	-	50	-	40	-	-	90
NATIONAL FIRE PREV & CONTROL ADMIN	1,499	1,215	-	-	284	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	107,843	78,235	3,618	-	17,198	-	1,715	234	6,743	100
OFFICE OF MINORITY BUSINESS ENTERP	328	82	16	-	-	-	230	-	-	-
OFFICE OF TELECOMMUNICATIONS	299	299	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	223	223	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,864,467	668,728	999,971	191	120,232	21,134	39,064	13,847	-	1,300
DEPARTMENT OF THE ARMY	408,761	274,789	107,555	25	13,923	210	11,864	-	-	395
DEPARTMENT OF THE NAVY	266,600	148,354	89,165	-	21,595	3,192	3,595	595	-	104
DEPARTMENT OF THE AIR FORCE	780,000	147,721	567,469	-	54,845	1,043	8,321	-	-	601
DEFENSE AGENCIES	407,406	97,609	235,187	90	29,674	16,689	14,859	13,098	-	200
DEPARTMENTWIDE FUNDS	1,700	255	595	76	195	-	425	154	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,715,725	375,949	77,653	45,992	856,221	9,926	246,196	2,963	80,885	19,940
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	90,565	10,208	3,833	-	52,193	-	15,025	-	8,769	537
CENTER FOR DISEASE CONTROL	59,455	42,667	3,301	-	3,900	-	5,931	-	100	3,556
FOOD AND DRUG ADMINISTRATION	47,357	29,386	3,792	-	10,376	-	1,074	-	1,950	819
HEALTH RESOURCES ADMINISTRATION	25,270	5,944	142	-	9,920	-	8,549	-	715	-
HEALTH SERVICES ADMINISTRATION	10,556	3,910	-	-	2,534	-	1,103	-	808	2,201
NATIONAL INSTITUTE OF EDUCATION	18,100	3,258	1,086	-	4,887	-	6,699	-	2,170	-
NATIONAL INSTITUTES OF HEALTH	1,331,281	267,587	51,588	45,992	733,536	5,598	186,979	2,963	24,211	12,827
OFFICE OF EDUCATION	24,374	72	2,286	-	11,442	-	3,574	-	7,000	-
OFFICE OF HUMAN DEVELOPMENT	43,682	3,089	3,122	-	23,374	-	11,300	-	2,797	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	75	-	-	-	-	962	-	-	-
OFFICE OF THE SECRETARY	20,608	618	3,091	-	824	4,328	-	-	11,747	-
SOCIAL AND REHABILITATION SERVICE	31,200	750	2,655	-	2,227	-	5,000	-	20,568	-
SOCIAL SECURITY ADMINISTRATION	12,200	8,385	2,757	-	1,008	-	-	-	50	-
DEPT OF HOUSING & URBAN DEVELOPMENT	32,300	11,294	9,261	-	2,936	-	8,809	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	142,068	81,414	38,585	400	19,779	-	-	-	1,604	286
BONNEVILLE POWER ADMINISTRATION	470	123	347	-	-	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	1,235	348	-	-	887	-	-	-	-	-
BUREAU OF MINES	75,500	40,000	31,000	-	4,500	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	20	20	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	8,596	3,850	1,961	-	1,281	-	-	-	1,504	-
GEOLOGICAL SURVEY	24,716	22,834	1,800	-	82	-	-	-	-	-
NATIONAL PARK SERVICE	11,073	5,131	-	400	5,492	-	-	-	50	-
OFFICE OF THE SECRETARY	286	-	-	-	-	-	-	-	-	286
OFFICE OF WATER RES AND TECHNOLOGY	12,524	1,460	3,477	-	7,537	-	-	-	50	-
US FISH AND WILDLIFE SERVICE	7,648	7,648	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	20,275	3,590	625	-	5,600	-	8,226	1,000	1,234	-
BUREAU OF PRISONS	1,000	50	-	-	450	-	66	-	434	-
DRUG ENFORCEMENT ADMINISTRATION	600	300	-	-	300	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	175	50	125	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	16,500	3,090	-	-	3,950	-	7,660	1,000	800	-
OFFICE OF THE ATTORNEY GENERAL	2,000	100	500	-	900	-	500	-	-	-
DEPARTMENT OF LABOR, TOTAL	20,572	11,260	5,869	-	2,003	100	1,040	-	300	-
BUREAU OF LABOR STATISTICS	787	787	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	5,185	2,644	830	-	881	-	530	-	300	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,550	5,550	-	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	2,850	960	1,102	-	500	-	288	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,300	600	3,700	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,900	719	237	-	622	100	222	-	-	-
DEPARTMENT OF STATE, TOTAL	42,521	7,434	1,866	-	22,847	-	7,747	-	-	3,027
DEPARTMENTAL FUNDS	1,832	240	210	-	847	-	535	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	41,089	7,194	1,656	-	22,000	-	7,212	-	-	3,027

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TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPT OF TRANSPORTATION, TOTAL	36,500	10,654	17,206	-	2,675	20	2,274	144	3,527	-
FEDERAL AVIATION ADMINISTRATION	5,700	1,015	4,177	-	364	-	-	144	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	198	505	-	667	-	457	-	173	-
FEDERAL RAILROAD ADMINISTRATION	6,900	5,350	1,472	-	78	-	-	-	-	-
MATERIALS TRANSPORTATION BUREAU	100	-	100	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	13,700	660	8,675	-	1,200	-	1,605	-	1,560	-
OFFICE OF THE SECRETARY	4,700	1,866	1,092	-	302	-	171	-	1,269	-
US COAST GUARD	2,300	1,050	1,145	-	64	-	41	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	515	40	-	-	20	-	-	525	-
DEPARTMENT OF THE TREASURY, TOTAL	2,037	1,637	-	-	-	-	-	400	-	-
BUREAU OF ALCOHOL TOBACCO & FIREARMS	492	92	-	-	-	-	-	400	-	-
BUREAU OF ENGRAVING AND PRINTING	1,545	1,545	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,379	1,379	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	800	24	760	-	6	-	-	-	10	-
CIVIL AERONAUTICS BOARD	496	496	-	-	-	-	-	-	-	-
CIVIL SERVICE COMMISSION	740	740	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	500	-	-	-	-	-	500	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	2,988	989	865	-	95	-	691	-	348	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	543,449	31,838	60,344	69,218	80,563	246,073	35,819	18,709	485	403
ENVIRONMENTAL PROTECTION AGENCY	166,000	83,245	45,000	-	21,200	-	8,200	500	6,000	1,855
FEDERAL COMMUNICATIONS COMMISSION	2,144	1,744	400	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	993	931	-	-	62	-	-	-	-	-
FEDERAL TRADE COMMISSION	840	840	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	234	24	180	-	-	-	30	-	-	-
INTERSTATE COMMERCE COMMISSION	94	94	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	236	236	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,061,135	686,415	321,885	-	32,964	15,000	3,065	1,073	188	545
NATIONAL SCIENCE FOUNDATION	71,942	6,027	11,300	506	32,447	893	10,069	1,282	6,914	2,504
NUCLEAR REGULATORY COMMISSION	139,100	9,580	6,257	87,654	5,200	19,370	5,310	4,429	150	1,150
OFFICE OF TELECOMMUNICATIONS POLICY	2,409	1,500	484	-	200	-	175	50	-	-
SMALL BUSINESS ADMINISTRATION	1,100	100	1,000	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	27,535	7,794	-	-	200	-	19,541	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,350	144	650	258	100	-	426	772	-	-
US INFORMATION AGENCY	120	120	-	-	-	-	-	-	-	-
US INTERNATIONAL TRADE COMMISSION	2,800	2,800	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	87,082	87,082	-	-	-	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-51. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1976	ESTIMATES	
		1977	1978
TOTAL, ALL FIELDS	5,447,818	6,098,609	6,478,637
LIFE SCIENCES, TOTAL	1,768,402	1,976,295	2,047,151
BIOLOGICAL	671,182	751,811	791,905
CLINICAL MEDICAL	746,195	840,613	858,640
OTHER MEDICAL SCIENCES	293,512	325,618	332,811
LIFE SCIENCES, NEC	57,513	58,253	63,795
PSYCHOLOGY, TOTAL	96,650	111,503	120,510
BIOLOGICAL ASPECTS	28,482	30,184	30,361
SOCIAL ASPECTS	56,954	67,623	77,167
PSYCHOLOGICAL SCIENCES, NEC	11,214	13,696	12,982
PHYSICAL SCIENCES, TOTAL	499,020	599,302	659,217
ASTRONOMY	4,402	3,570	4,034
CHEMISTRY	149,515	168,238	169,268
PHYSICS	296,026	358,099	394,887
PHYSICAL SCIENCES, NEC	49,077	69,395	91,028
ENVIRONMENTAL SCIENCES, TOTAL	415,700	458,739	486,928
ATMOSPHERIC SCIENCES	171,668	188,563	192,566
GEOLOGICAL SCIENCES	90,610	103,171	111,814
OCEANOGRAPHY	72,910	83,601	83,386
ENVIRONMENTAL SCIENCES, NEC	80,512	83,404	99,162
MATHEMATICS & COMPUTER SCIENCES, TOTAL	82,700	86,230	96,057
MATHEMATICS	36,933	40,103	41,924
COMPUTER SCIENCES	44,046	43,276	50,473
MATHEMATICS & COMPUTER SCIENCES, NEC	1,721	2,851	3,660
ENGINEERING, TOTAL	2,138,028	2,333,818	2,517,653
AERONAUTICAL	752,086	781,820	817,728
ASTRONAUTICAL	234,534	244,771	267,088
CHEMICAL	78,157	95,413	98,753
CIVIL	104,729	128,696	124,933
ELECTRICAL	219,143	259,833	287,687
MECHANICAL	110,052	117,721	129,879
METALLURGY & MATERIALS	198,374	199,351	245,142
ENGINEERING, NEC	440,953	506,213	546,443
SOCIAL SCIENCES, TOTAL	304,745	354,571	368,778
ANTHROPOLOGY	7,158	5,998	7,227
ECONOMICS	112,388	123,617	134,112
POLITICAL SCIENCE	4,240	4,824	4,994
SOCIOLOGY	37,031	44,532	50,197
SOCIAL SCIENCES, NEC	143,928	175,600	172,248
OTHER SCIENCES, NEC	142,573	178,151	186,343

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COMPUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	5,447,818	1,768,402	96,650	499,020	415,700	82,700	2,138,028	304,745	142,573
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	270,853	157,614	52	31,580	9,196	2,457	27,605	42,341	8
AGRICULTURAL RESEARCH SERVICE	125,898	78,410	-	25,469	1,901	692	18,028	1,398	-
COOPERATIVE STATE RESEARCH SERVICE	70,301	48,305	-	3,515	440	-	2,410	15,631	-
ECONOMIC RESEARCH SERVICE	20,368	-	-	-	-	-	-	20,368	-
FARMER COOPERATIVE SERVICE	1,205	-	-	-	-	-	-	1,205	-
FOREST SERVICE	51,931	33,899	52	2,596	6,855	623	7,167	3,739	-
NATIONAL AGRICULTURAL LIBRARY	8	-	-	-	-	-	-	-	8
STATISTICAL REPORTING SERVICE	1,142	-	-	-	-	1,142	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	133,439	41,923	167	18,044	45,599	3,760	15,806	6,959	1,184
BUREAU OF THE CENSUS	1,955	-	167	-	-	1,263	-	470	55
ECONOMIC DEVELOPMENT ADMINISTRATION	388	-	-	-	-	-	-	388	-
MARITIME ADMINISTRATION	3,812	-	-	-	-	-	3,431	381	-
NATIONAL BUREAU OF STANDARDS	31,732	-	-	17,984	-	2,497	11,251	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	1,129	-	-	-	-	-	-	-	1,129
NATIONAL OCEANIC AND ATMOS ADMIN	53,597	41,923	-	60	45,599	-	703	5,315	-
OFFICE OF MINORITY BUSINESS ENTERP	405	-	-	-	-	-	-	405	-
OFFICE OF TELECOMMUNICATIONS	234	-	-	-	-	-	234	-	-
PATENT & TRADEMARK OFFICE	187	-	-	-	-	-	187	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,539,319	93,468	35,793	158,410	88,759	51,132	1,046,099	3,753	61,905
DEPARTMENT OF THE ARMY	267,385	49,057	11,802	52,501	12,272	4,027	133,137	1,959	2,630
DEPARTMENT OF THE NAVY	219,000	7,408	3,228	43,740	13,055	23,793	127,776	-	-
DEPARTMENT OF THE AIR FORCE	740,000	32,822	16,607	11,269	19,396	2,499	657,407	-	-
DEFENSE AGENCIES	312,234	4,091	4,121	50,779	44,036	20,751	127,563	1,735	59,158
DEPARTMENTWIDE FUNDS	700	90	35	121	-	62	216	59	117
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,510,521	1,235,182	38,569	11,061	-	16,892	15,452	138,702	54,663
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	84,060	39,401	28,294	61	-	777	-	14,617	910
CENTER FOR DISEASE CONTROL	49,596	49,596	-	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	37,077	37,077	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	27,907	-	-	-	-	-	-	25,407	2,500
HEALTH SERVICES ADMINISTRATION	9,224	9,224	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	5,717	-	-	-	-	-	-	5,717	-
NATIONAL INSTITUTES OF HEALTH	1,193,340	1,087,554	4,022	11,000	-	16,115	15,452	7,944	51,253
OFFICE OF EDUCATION	21,428	-	-	-	-	-	-	21,428	-
OFFICE OF HUMAN DEVELOPMENT	34,624	12,330	6,253	-	-	-	-	16,041	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	-	-	-	-	-	-	1,037	-
OFFICE OF THE SECRETARY	18,831	-	-	-	-	-	-	18,831	-
SOCIAL AND REHABILITATION SERVICE	18,580	-	-	-	-	-	-	18,580	-
SOCIAL SECURITY ADMINISTRATION	9,100	-	-	-	-	-	-	9,100	-
DEPT OF HOUSING & URBAN DEVELOPMENT	36,945	-	-	-	-	-	4,645	32,300	-
DEPARTMENT OF THE INTERIOR, TOTAL	127,213	12,429	243	4,230	25,256	2,170	76,509	5,398	978
BONNEVILLE POWER ADMINISTRATION	462	-	-	-	-	-	462	-	-
BUREAU OF LAND MANAGEMENT	653	643	-	-	-	-	-	10	-
BUREAU OF MINES	72,500	-	-	1,100	2,400	1,600	67,400	-	-
BUREAU OF OUTDOOR RECREATION	20	-	-	-	-	-	-	20	-
BUREAU OF RECLAMATION	7,855	437	-	-	4,900	-	2,311	207	-
GEOLOGICAL SURVEY	20,662	-	-	2,700	15,325	519	2,118	-	-
NATIONAL PARK SERVICE	8,717	3,601	-	31	583	-	-	3,934	568
OFFICE OF THE SECRETARY	70	-	-	-	-	-	70	-	-
OFFICE OF WATER RES AND TECHNOLOGY	13,386	1,860	243	399	2,348	51	4,148	1,227	410
US FISH AND WILDLIFE SERVICE	5,888	5,888	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	13,817	1,413	1,112	286	-	-	82	10,873	51
DRUG ENFORCEMENT ADMINISTRATION	500	500	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	133	-	-	-	-	-	82	-	51
LAW ENFORCEMENT ASSISTANCE ADMIN	13,184	913	1,112	286	-	-	-	10,873	-
DEPARTMENT OF LABOR, TOTAL	17,042	-	207	-	-	-	-	16,835	-
BUREAU OF LABOR STATISTICS	776	-	-	-	-	-	-	776	-
EMPLOYMENT AND TRAINING ADMIN	6,912	-	207	-	-	-	-	6,705	-
EMPLOYMENT STANDARDS ADMINISTRATION	4,268	-	-	-	-	-	-	4,268	-
LABOR-MANAGEMENT SERVICES ADMIN	405	-	-	-	-	-	-	405	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	2,900	-	-	-	-	-	-	2,900	-
OFFICE OF THE SECRETARY	1,781	-	-	-	-	-	-	1,781	-
DEPARTMENT OF STATE, TOTAL	25,128	13,293	-	-	2,682	-	525	8,219	409
DEPARTMENTAL FUNDS	1,121	-	-	-	-	-	-	1,121	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	24,007	13,293	-	-	2,682	-	525	7,098	409
DEPT OF TRANSPORTATION, TOTAL	31,100	769	21	24	332	766	25,751	3,437	-
FEDERAL AVIATION ADMINISTRATION	3,600	-	-	-	-	-	3,600	-	-
FEDERAL HIGHWAY ADMINISTRATION	1,900	-	-	-	-	-	1,900	-	-
FEDERAL RAILROAD ADMINISTRATION	8,600	-	-	-	-	-	7,050	1,550	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,900	769	-	-	-	469	8,583	79	-
OFFICE OF THE SECRETARY	3,900	-	21	18	200	-	2,727	934	-
US COAST GUARD	2,600	-	-	6	132	297	1,291	874	-
URBAN MASS TRANSPORTATION ADMIN	600	-	-	-	-	-	600	-	-

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TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF THE TREASURY, TOTAL	1,474	-	-	1,002	-	-	472	-	-
BUREAU OF ENGRAVING AND PRINTING	1,474	-	-	1,002	-	-	472	-	-
OTHER AGENCIES									
ACTION	43	-	-	-	-	-	-	43	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,026	-	-	-	-	-	-	1,026	-
APPALACHIAN REGIONAL COMMISSION	719	-	-	-	-	-	-	719	-
CIVIL AERONAUTICS BOARD	445	-	-	-	-	-	-	445	-
CIVIL SERVICE COMMISSION	820	-	820	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,477	2,490	-	-	-	-	822	165	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	400,709	78,545	-	208,040	72,300	-	39,515	2,309	-
ENVIRONMENTAL PROTECTION AGENCY	141,695	43,060	-	45,642	3,566	2,330	45,197	1,900	-
FEDERAL COMMUNICATIONS COMMISSION	1,534	-	-	-	-	-	921	613	-
FEDERAL ENERGY ADMINISTRATION	1,048	-	-	-	-	-	119	929	-
FEDERAL HOME LOAN BANK BOARD	782	-	-	-	-	-	-	782	-
FEDERAL TRADE COMMISSION	550	-	-	-	-	-	-	550	-
GENERAL SERVICES ADMINISTRATION	296	-	-	-	-	-	296	-	-
INTERSTATE COMMERCE COMMISSION	123	-	-	-	-	88	-	35	-
LIBRARY OF CONGRESS	256	-	-	-	-	-	-	-	256
NATIONAL AERONAUTICS & SPACE ADMIN	929,632	16,325	9,702	14,198	158,646	906	719,731	1,744	8,380
NATIONAL SCIENCE FOUNDATION	72,142	6,759	-	4,573	9,289	1,846	15,506	22,104	12,065
NUCLEAR REGULATORY COMMISSION	88,432	-	-	-	-	-	88,432	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	1,500	68	-	-	-	-	1,128	304	-
SMALL BUSINESS ADMINISTRATION	52	-	-	-	-	-	-	52	-
TENNESSEE VALLEY AUTHORITY	16,466	1,554	-	1,754	-	-	13,057	101	-
US ARMS CONTROL & DISARMAMENT AGENCY	1,394	-	-	176	75	353	259	531	-
US INFORMATION AGENCY	99	-	-	-	-	-	99	-	-
US INTERNATIONAL TRADE COMMISSION	1,500	-	-	-	-	-	-	1,500	-
VETERANS ADMINISTRATION	76,227	63,513	9,964	-	-	-	-	76	2,674

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	6,058,609	1,976,295	111,503	599,302	458,739	86,230	2,333,818	354,571	178,151
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	307,331	179,370	59	35,977	10,466	2,823	31,440	47,196	-
AGRICULTURAL RESEARCH SERVICE	143,508	89,377	-	29,032	2,167	789	20,550	1,593	-
COOPERATIVE STATE RESEARCH SERVICE	79,791	54,827	-	3,990	498		2,735	17,741	-
ECONOMIC RESEARCH SERVICE	22,270	-	-	-	-	-	-	22,270	-
FARMER COOPERATIVE SERVICE	1,335	-	-	-	-	-	-	1,335	-
FOREST SERVICE	59,102	35,166	59	2,955	7,801	709	8,155	4,257	-
STATISTICAL REPORTING SERVICE	1,325	-	-	-	-	1,325	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	149,583	50,147	175	20,737	48,198	4,152	16,884	7,774	1,516
BUREAU OF THE CENSUS	2,092	-	175	-	-	1,317	-	550	50
ECONOMIC DEVELOPMENT ADMINISTRATION	391	-	-	-	-	-	-	391	-
MARITIME ADMINISTRATION	3,039	-	-	-	-	-	2,780	259	-
NATIONAL BUREAU OF STANDARDS	36,122	-	-	20,485	-	2,835	12,802	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	1,466	-	-	-	-	-	-	-	1,466
NATIONAL OCEANIC AND ATMOS ADMIN	105,751	50,147	-	252	48,198	-	780	6,374	-
OFFICE OF MINORITY BUSINESS ENTERP	200	-	-	-	-	-	-	200	-
OFFICE OF TELECOMMUNICATIONS	299	-	-	-	-	-	299	-	-
PATENT & TRADEMARK OFFICE	223	-	-	-	-	-	223	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,677,033	109,911	43,641	180,634	96,929	50,101	1,105,867	4,583	85,367
DEPARTMENT OF THE ARMY	335,185	64,096	17,501	66,492	12,495	5,749	164,681	4,171	-
DEPARTMENT OF THE NAVY	239,000	9,129	6,288	54,791	14,424	25,706	128,662	-	-
DEPARTMENT OF THE AIR FORCE	735,000	31,272	15,046	9,523	25,121	544	653,494	-	-
DEFENSE AGENCIES	366,748	5,298	4,762	49,672	44,889	18,023	158,752	335	85,217
DEPARTMENTWIDE FUNDS	900	116	44	156	-	79	278	77	150
DEPT OF HEALTH, ED. & WELFARE, TOTAL	1,682,940	1,359,079	43,426	12,069	-	18,517	16,860	170,048	62,941
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	91,967	43,733	30,289	69	-	885	-	14,976	2,015
CENTER FOR DISEASE CONTROL	60,440	60,440	-	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	42,828	42,828	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	30,006	-	-	-	-	-	-	25,006	5,000
HEALTH SERVICES ADMINISTRATION	13,183	13,183	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	13,000	-	-	-	-	-	-	13,000	-
NATIONAL INSTITUTES OF HEALTH	1,295,659	1,180,226	4,389	12,000	-	17,632	16,860	8,626	55,926
OFFICE OF EDUCATION	27,900	-	-	-	-	-	-	27,900	-
OFFICE OF HUMAN DEVELOPMENT	49,595	18,669	8,748	-	-	-	-	22,178	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	-	-	-	-	-	-	1,037	-
OFFICE OF THE SECRETARY	18,400	-	-	-	-	-	-	18,400	-
SOCIAL AND REHABILITATION SERVICE	29,325	-	-	-	-	-	-	29,325	-
SOCIAL SECURITY ADMINISTRATION	9,600	-	-	-	-	-	-	9,600	-
DEPT OF HOUSING & URBAN DEVELOPMENT	34,100	-	-	-	-	-	3,855	30,245	-
DEPARTMENT OF THE INTERIOR, TOTAL	140,384	13,264	210	4,560	30,749	2,350	83,052	5,245	954
BONNEVILLE POWER ADMINISTRATION	220	-	-	-	-	-	220	-	-
BUREAU OF LAND MANAGEMENT	820	758	-	-	-	-	-	62	-
BUREAU OF MINES	78,900	-	-	1,200	2,400	1,600	73,700	-	-
BUREAU OF OUTDOOR RECREATION	20	-	-	-	-	-	-	20	-
BUREAU OF RECLAMATION	9,888	384	-	-	6,696	-	2,651	157	-
GEOLOGICAL SURVEY	24,407	-	-	3,017	18,580	680	2,130	-	-
NATIONAL PARK SERVICE	9,279	3,830	-	31	788	-	-	4,026	604
OFFICE OF THE SECRETARY	1,806	-	-	-	605	-	1,201	-	-
OFFICE OF WATER RES AND TECHNOLOGY	8,292	1,540	210	312	1,680	70	3,150	980	350
US FISH AND WILDLIFE SERVICE	6,752	6,752	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	16,197	749	1,799	-	135	-	496	12,864	154
BUREAU OF PRISONS	297	-	-	-	-	-	-	297	-
DRUG ENFORCEMENT ADMINISTRATION	500	250	-	-	-	-	250	-	-
IMMIGRATION & NATURALIZATION SERVICE	400	-	-	-	-	-	246	-	154
LAW ENFORCEMENT ASSISTANCE ADMIN	15,000	499	1,799	-	135	-	-	12,567	-
DEPARTMENT OF LABOR, TOTAL	20,849	-	181	-	-	-	-	20,668	-
BUREAU OF LABOR STATISTICS	896	-	-	-	-	-	-	896	-
EMPLOYMENT AND TRAINING ADMIN	6,032	-	181	-	-	-	-	5,851	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,535	-	-	-	-	-	-	5,535	-
LABOR-MANAGEMENT SERVICES ADMIN	2,774	-	-	-	-	-	-	2,774	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3,300	-	-	-	-	-	-	3,300	-
OFFICE OF THE SECRETARY	2,312	-	-	-	-	-	-	2,312	-
DEPARTMENT OF STATE, TOTAL	32,311	17,707	-	-	5,476	-	500	8,478	150
DEPARTMENTAL FUNDS	1,332	-	-	-	-	-	-	1,332	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	30,979	17,707	-	-	5,476	-	500	7,146	150
DEPT OF TRANSPORTATION, TOTAL	46,000	1,631	27	31	423	1,371	38,454	4,063	-
FEDERAL AVIATION ADMINISTRATION	5,100	-	-	-	-	-	5,100	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	-	-	-	-	-	2,000	-	-
FEDERAL RAILROAD ADMINISTRATION	8,800	-	-	-	-	-	7,215	1,585	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	21,000	1,631	-	-	-	994	18,205	170	-
OFFICE OF THE SECRETARY	5,000	-	27	23	256	-	3,496	1,198	-
US COAST GUARD	3,300	-	-	8	167	377	1,638	1,110	-
URBAN MASS TRANSPORTATION ADMIN	800	-	-	-	-	-	800	-	-

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TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF THE TREASURY, TOTAL..........	1,903	-	-	1,080	-	-	463	-	360
BUREAU OF ALCOHOL TOBACCO & FIREARMS....	440	-	-	80	-	-	-	-	360
BUREAU OF ENGRAVING AND PRINTING.........	1,463	-	-	1,000	-	-	463	-	-
OTHER AGENCIES									
ACTION..	2	-	-	-	-	-	-	2	-
ADV COMM ON INTERGOVERNMNTL RELATIONS.....	1,172	-	-	-	-	-	-	1,172	-
APPALACHIAN REGIONAL COMMISSION............	800	-	-	-	-	-	-	800	-
CIVIL AERONAUTICS BOARD.....................	496	-	-	-	-	-	-	496	-
CIVIL SERVICE COMMISSION....................	740	-	740	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION...........	1,400	-	-	-	-	-	-	1,400	-
CONSUMER PRODUCT SAFETY COMMISSION.........	3,302	2,107	-	-	-	-	1,075	120	-
ENERGY RESEARCH & DEVELOPMENT ADMIN........	489,017	88,000	-	258,757	83,790	-	54,750	3,720	-
ENVIRONMENTAL PROTECTION AGENCY............	193,400	57,886	-	62,504	4,338	3,219	62,878	2,575	-
FEDERAL COMMUNICATIONS COMMISSION..........	2,060	-	-	-	-	-	1,141	919	-
FEDERAL HOME LOAN BANK BOARD...............	995	-	-	-	-	-	-	995	-
FEDERAL TRADE COMMISSION....................	755	-	-	-	-	-	-	755	-
GENERAL SERVICES ADMINISTRATION............	96	-	-	-	-	-	96	-	-
INTERSTATE COMMERCE COMMISSION.............	618	-	-	-	-	45	-	573	-
LIBRARY OF CONGRESS.........................	225	-	-	-	-	-	-	-	225
NATIONAL AERONAUTICS & SPACE ADMIN.........	990,563	15,111	10,570	17,101	170,504	848	762,502	1,931	11,996
NATIONAL SCIENCE FOUNDATION................	68,661	7,255	25	3,586	7,612	2,245	13,751	22,755	11,432
NUCLEAR REGULATORY COMMISSION..............	113,888	-	-	-	-		113,888	-	-
OFFICE OF TELECOMMUNICATIONS POLICY........	2,109	50	-	-	-	-	1,765	258	36
SMALL BUSINESS ADMINISTRATION..............	1,027	-	-	-	-	-	-	1,027	-
TENNESSEE VALLEY AUTHORITY..................	27,478	1,707	-	2,070	-		23,557	144	-
US ARMS CONTROL & DISARMAMENT AGENCY.......	2,165	-	-	196	119	559	410	881	-
US INFORMATION AGENCY.......................	134	-	-	-	-	-	134	-	-
US INTERNATIONAL TRADE COMMISSION..........	2,800	-	-	-	-	-	-	2,800	-
VETERANS ADMINISTRATION.....................	86,075	72,321	10,650	-	-	-	-	84	3,020

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COMPUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	6,478,637	2,047,151	120,510	659,217	486,928	96,057	2,513,653	368,778	186,343
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	334,857	195,445	63	39,869	11,222	2,960	34,553	50,745	-
AGRICULTURAL RESEARCH SERVICE	160,706	100,088	-	32,511	2,427	883	23,013	1,784	-
COOPERATIVE STATE RESEARCH SERVICE	84,544	58,094	-	4,227	528	-	2,898	18,797	-
ECONOMIC RESEARCH SERVICE	24,081	-	-	-	-	-	-	24,081	-
FARMER COOPERATIVE SERVICE	1,574	-	-	-	-	-	-	1,574	-
FOREST SERVICE	62,627	37,263	63	3,131	8,267	752	8,642	4,509	-
STATISTICAL REPORTING SERVICE	1,325	-	-	-	-	1,325	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	150,449	52,985	185	20,350	47,069	4,236	15,714	8,361	1,549
BUREAU OF THE CENSUS	2,186	-	185	-	-	1,401	-	550	50
ECONOMIC DEVELOPMENT ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
MARITIME ADMINISTRATION	2,785	-	-	-	-	-	2,549	236	-
NATIONAL BUREAU OF STANDARDS	34,286	-	-	19,488	-	2,835	11,963	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	1,499	-	-	-	-	-	-	-	1,499
NATIONAL OCEANIC AND ATMOS ADMIN	107,843	52,985	-	862	47,069	-	680	6,247	-
OFFICE OF MINORITY BUSINESS ENTERP	328	-	-	-	-	-	-	328	-
OFFICE OF TELECOMMUNICATIONS	299	-	-	-	-	-	299	-	-
PATENT & TRADEMARK OFFICE	223	-	-	-	-	-	223	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,864,467	116,346	54,152	214,351	109,298	58,673	1,210,234	3,334	98,079
DEPARTMENT OF THE ARMY	408,761	67,603	23,617	87,892	14,468	11,337	197,507	2,995	3,342
DEPARTMENT OF THE NAVY	266,600	10,165	9,292	67,750	16,012	26,787	136,594	-	-
DEPARTMENT OF THE AIR FORCE	780,000	32,900	15,816	8,696	30,567	89	691,932	-	-
DEFENSE AGENCIES	407,406	5,458	5,345	49,718	48,251	20,310	183,676	195	94,453
DEPARTMENTWIDE FUNDS	1,700	220	82	295	-	150	525	144	284
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,715,725	1,388,645	43,148	12,436	-	18,957	17,317	175,255	59,967
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	90,565	42,687	29,820	67	-	859	-	14,584	2,548
CENTER FOR DISEASE CONTROL	59,455	59,455	-	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	47,397	47,397	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	25,270	-	-	-	-	-	-	25,270	-
HEALTH SERVICES ADMINISTRATION	10,556	10,556	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	18,100	-	-	-	-	-	-	18,100	-
NATIONAL INSTITUTES OF HEALTH	1,331,281	1,212,667	4,557	12,369	-	18,098	17,317	8,854	57,419
OFFICE OF EDUCATION	24,374	-	-	-	-	-	-	24,374	-
OFFICE OF HUMAN DEVELOPMENT	43,682	15,883	8,771	-	-	-	-	19,028	-
OFFICE OF ASS'T SECTY FOR EDUCATION	1,037	-	-	-	-	-	-	1,037	-
OFFICE OF THE SECRETARY	20,608	-	-	-	-	-	-	20,608	-
SOCIAL AND REHABILITATION SERVICE	31,200	-	-	-	-	-	-	31,200	-
SOCIAL SECURITY ADMINISTRATION	12,200	-	-	-	-	-	-	12,200	-
DEPT OF HOUSING & URBAN DEVELOPMENT	32,300	-	-	-	-	-	3,900	28,400	-
DEPARTMENT OF THE INTERIOR, TOTAL	142,068	15,862	346	4,924	30,593	2,530	79,899	6,670	1,244
BONNEVILLE POWER ADMINISTRATION	470	-	-	-	-	-	470	-	-
BUREAU OF LAND MANAGEMENT	1,235	1,162	-	-	-	-	-	73	-
BUREAU OF MINES	75,500	-	-	1,200	2,400	1,600	70,300	-	-
BUREAU OF OUTDOOR RECREATION	20	-	-	-	-	-	-	20	-
BUREAU OF RECLAMATION	8,596	263	-	-	5,925	-	2,254	154	-
GEOLOGICAL SURVEY	24,716	-	-	3,249	18,517	825	2,125	-	-
NATIONAL PARK SERVICE	11,073	4,460	31	-	925	-	-	4,943	714
OFFICE OF THE SECRETARY	286	-	-	-	286	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	12,524	2,329	315	475	2,540	135	4,750	1,480	530
US FISH AND WILDLIFE SERVICE	7,648	7,648	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	20,275	200	1,000	-	200	-	525	18,300	50
BUREAU OF PRISONS	1,000	-	-	-	-	-	-	1,000	-
DRUG ENFORCEMENT ADMINISTRATION	600	200	-	-	-	-	400	-	-
IMMIGRATION & NATURALIZATION SERVICE	175	-	-	-	-	-	125	-	50
LAW ENFORCEMENT ASSISTANCE ADMIN	16,500	-	1,000	-	200	-	-	15,300	-
OFFICE OF THE ATTORNEY GENERAL	2,000	-	-	-	-	-	-	2,000	-
DEPARTMENT OF LABOR, TOTAL	20,572	-	155	-	-	100	-	20,317	-
BUREAU OF LABOR STATISTICS	787	-	-	-	-	-	-	787	-
EMPLOYMENT AND TRAINING ADMIN	5,185	-	155	-	-	-	-	5,030	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,550	-	-	-	-	-	-	5,550	-
LABOR-MANAGEMENT SERVICES ADMIN	2,850	-	-	-	-	-	-	2,850	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,300	-	-	-	-	100	-	4,200	-
OFFICE OF THE SECRETARY	1,900	-	-	-	-	-	-	1,900	-
DEPARTMENT OF STATE, TOTAL	42,921	27,258	-	-	1,850	-	200	13,458	155
DEPARTMENTAL FUNDS	1,832	-	-	-	-	-	-	1,832	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	41,089	27,258	-	-	1,850	-	200	11,626	155

CONTINUED ON NEXT PAGE

TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPT OF TRANSPORTATION, TOTAL	36,500	1,064	25	26	357	912	30,862	3,254	-
FEDERAL AVIATION ADMINISTRATION	5,700	-	-	-	-		5,700	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	-	-	-	-	-	2,000	-	-
FEDERAL RAILROAD ADMINISTRATION	6,900	-	-	-	-	-	5,655	1,245	-
MATERIALS TRANSPORTATION BUREAU	100	-	-	-	-	-	100	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	13,700	1,064	-	-	-	649	11,878	109	-
OFFICE OF THE SECRETARY	4,700	-	25	21	240		3,287	1,127	-
US COAST GUARD	2,300	-	-	5	117	263	1,142	773	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	-	-	1,100	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,037	-	-	1,129	-	-	496	-	412
BUREAU OF ALCOHOL TOBACCO & FIREARMS	492	-	-	80	-	-	-	-	412
BUREAU OF ENGRAVING AND PRINTING	1,545	-	-	1,049	-	-	496	-	-
OTHER AGENCIES									
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,379	-	-	-	-	-	-	1,379	-
APPALACHIAN REGIONAL COMMISSION	800	-	-	-	-	-	-	800	-
CIVIL AERONAUTICS BOARD	496	-	-	-	-	-	-	496	-
CIVIL SERVICE COMMISSION	740	-	740	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	500	-	-	-	-	-	-	500	-
CONSUMER PRODUCT SAFETY COMMISSION	2,988	2,059	-	-	-	-	869	60	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	543,449	95,443	-	286,718	96,398	-	61,890	3,000	-
ENVIRONMENTAL PROTECTION AGENCY	166,000	49,920	-	53,380	3,820	2,760	53,912	2,208	-
FEDERAL COMMUNICATIONS COMMISSION	2,144	-	-	-	-	-	1,214	930	-
FEDERAL HOME LOAN BANK BOARD	993	-	-	-	-	-	-	993	-
FEDERAL TRADE COMMISSION	840	-	-	-	-	-	-	840	-
GENERAL SERVICES ADMINISTRATION	234	-	-	-	-	-	234	-	-
INTERSTATE COMMERCE COMMISSION	94	-	-	-	-	94	-	-	-
LIBRARY OF CONGRESS	236	-	-	-	-	-	-	-	236
NATIONAL AERONAUTICS & SPACE ADMIN	1,061,135	18,346	9,810	19,368	179,214	1,988	819,431	1,778	11,200
NATIONAL SCIENCE FOUNDATION	71,942	8,356	26	3,899	6,778	2,240	18,888	21,364	10,391
NUCLEAR REGULATORY COMMISSION	139,100	-	-	-	-	-	139,100	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	2,409	50	90	-	-	-	1,069	1,200	-
SMALL BUSINESS ADMINISTRATION	1,100	-	-	-	-	-	-	1,100	-
TENNESSEE VALLEY AUTHORITY	27,535	2,010	-	2,554	-	-	22,781	190	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,350	-	-	213	129	607	445	956	-
US INFORMATION AGENCY	120	-	-	-	-	-	120	-	-
US INTERNATIONAL TRADE COMMISSION	2,800	-	-	-	-	-	-	2,800	-
VETERANS ADMINISTRATION	87,082	73,162	10,770	-	-	-	-	90	3,060

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	96,650	28,482	56,954	11,214	499,020	4,402	149,515	296,026	49,077
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	52	-	52	-	31,580	-	26,426	5,154	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	25,469	-	21,717	3,752	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	3,515	-	3,515	-	-
FOREST SERVICE	52	-	52	-	2,596	-	1,194	1,402	-
DEPARTMENT OF COMMERCE, TOTAL	167	-	167	-	18,044	320	5,812	11,912	-
BUREAU OF THE CENSUS	167	-	167	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	17,984	320	5,752	11,912	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	60	-	60	-	-
DEPARTMENT OF DEFENSE, TOTAL	35,793	1,284	32,611	1,898	158,410	1,764	34,034	83,890	38,722
DEPARTMENT OF THE ARMY	11,802	170	11,587	45	52,501	130	23,136	9,838	19,397
DEPARTMENT OF THE NAVY	3,228	250	2,978	-	43,740	881	5,994	36,865	-
DEPARTMENT OF THE AIR FORCE	16,607	814	15,793	-	11,269	753	3,985	6,531	-
DEFENSE AGENCIES	4,121	28	2,240	1,853	50,779	-	919	30,535	19,325
DEPARTMENTWIDE FUNDS	35	22	13	-	121	-	-	121	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	38,569	19,533	19,036	-	11,061	-	9,778	1,283	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	28,294	16,971	11,323	-	61	-	61	-	-
NATIONAL INSTITUTES OF HEALTH	4,022	2,562	1,460	-	11,000	-	9,717	1,283	-
OFFICE OF HUMAN DEVELOPMENT	6,253	-	6,253	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	243	-	243	-	4,230	31	3,604	595	-
BUREAU OF MINES	-	-	-	-	1,100	-	1,100	-	-
GEOLOGICAL SURVEY	-	-	-	-	2,700	-	2,181	519	-
NATIONAL PARK SERVICE	-	-	-	-	31	31	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	243	-	243	-	399	-	323	76	-
DEPARTMENT OF JUSTICE, TOTAL	1,112	-	1,112	-	286	-	-	-	286
LAW ENFORCEMENT ASSISTANCE ADMIN	1,112	-	1,112	-	286	-	-	-	286
DEPARTMENT OF LABOR, TOTAL	207	-	207	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	207	-	207	-	-		-	-	-
DEPT OF TRANSPORTATION, TOTAL	21	-	21	-	24	-	24	-	-
OFFICE OF THE SECRETARY	21	-	21	-	18	-	18	-	-
US COAST GUARD	-	-	-	-	6	-	6	-	-
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	1,002	-	221	140	641
BUREAU OF ENGRAVING AND PRINTING	-	-	-	-	1,002	-	221	140	641
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	820	-	820	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	208,040	-	22,667	180,654	4,719
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	45,642	-	41,990	3,652	-
NATIONAL AERONAUTICS & SPACE ADMIN	9,702	-	386	9,316	14,198	2,287	519	6,683	4,709
NATIONAL SCIENCE FOUNDATION	-	-	-	-	4,573	-	2,510	2,063	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,754	-	1,754	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	176	-	176	-	-
VETERANS ADMINISTRATION	9,964	7,665	2,299	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-56. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	111,503	30,184	67,623	13,696	599,302	3,570	168,238	358,099	69,395
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	59	-	59	-	35,977	-	30,104	5,873	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	29,032	-	24,755	4,277	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	3,990	-	3,990	-	-
FOREST SERVICE	59	-	59	-	2,955	-	1,359	1,596	-
DEPARTMENT OF COMMERCE, TOTAL	175	-	175	-	20,737	363	6,850	13,524	-
BUREAU OF THE CENSUS	175	-	175	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	20,485	363	6,598	13,524	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	252	-	252	-	-
DEPARTMENT OF DEFENSE, TOTAL	43,641	1,091	39,574	2,976	180,634	823	36,292	89,965	53,554
DEPARTMENT OF THE ARMY	17,501	325	17,066	110	66,492	188	26,751	13,761	25,792
DEPARTMENT OF THE NAVY	6,288	-	6,288	-	54,791	-	5,511	48,415	865
DEPARTMENT OF THE AIR FORCE	15,046	738	14,308	-	9,523	635	3,368	5,520	-
DEFENSE AGENCIES	4,762	-	1,896	2,866	49,672	-	662	22,113	26,897
DEPARTMENTWIDE FUNDS	44	28	16	-	156	-	-	156	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	43,426	20,903	22,523	-	12,069	-	10,673	1,396	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	30,289	18,107	12,182	-	69	-	69	-	-
NATIONAL INSTITUTES OF HEALTH	4,389	2,796	1,593	-	12,000	-	10,604	1,396	-
OFFICE OF HUMAN DEVELOPMENT	8,748	-	8,748	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	210	-	210	-	4,560	-	3,910	650	-
BUREAU OF MINES	-	-	-	-	1,200	-	1,200	-	-
GEOLOGICAL SURVEY	-	-	-	-	3,017	-	2,437	580	-
NATIONAL PARK SERVICE	-	-	-	-	31	-	31	-	-
OFFICE OF WATER RES AND TECHNOLOGY	210	-	210	-	312	-	242	70	-
DEPARTMENT OF JUSTICE, TOTAL	1,799	-	1,199	600	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	1,799	-	1,199	600	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	181	-	181	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	181	-	181	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	27	-	27	-	31	-	31	-	-
OFFICE OF THE SECRETARY	27	-	27	-	23	-	23	-	-
US COAST GUARD	-	-	-	-	8	-	8	-	-
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	1,080	-	260	180	640
BUREAU OF ALCOHOL TOBACCO & FIREARMS	-	-	-	-	80	-	40	40	-
BUREAU OF ENGRAVING AND PRINTING	-	-	-	-	1,000	-	220	140	640
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	740	-	740	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	258,757	-	17,844	232,746	8,167
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	62,504	-	57,503	5,001	-
NATIONAL AERONAUTICS & SPACE ADMIN	10,570	-	450	10,120	17,101	2,384	622	7,086	7,009
NATIONAL SCIENCE FOUNDATION	25	-	25	-	3,586	-	1,883	1,678	25
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,070	-	2,070	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	196	-	196	-	-
VETERANS ADMINISTRATION	10,650	8,190	2,460	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	120,510	30,361	77,167	12,982	659,217	4,034	169,268	394,887	91,028
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	63	-	63	-	39,869	-	33,389	6,480	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	32,511	-	27,722	4,789	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	4,227	-	4,227	-	-
FOREST SERVICE	63	-	63	-	3,131	-	1,440	1,691	-
DEPARTMENT OF COMMERCE, TOTAL	185	-	185	-	20,350	363	7,092	12,895	-
BUREAU OF THE CENSUS	185	-	185	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	-	-	19,488	363	6,230	12,895	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	862	-	862	-	-
DEPARTMENT OF DEFENSE, TOTAL	54,152	1,191	49,281	3,680	214,351	579	40,002	97,717	76,053
DEPARTMENT OF THE ARMY	23,617	350	23,222	45	87,892	-	30,837	14,388	42,667
DEPARTMENT OF THE NAVY	9,292	-	9,292	-	67,750	-	6,019	60,781	950
DEPARTMENT OF THE AIR FORCE	15,816	776	15,040	-	8,696	579	3,076	5,041	-
DEFENSE AGENCIES	5,345	-	1,710	3,635	49,718	-	70	17,212	32,436
DEPARTMENTWIDE FUNDS	82	65	17	-	295	-	-	295	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	43,148	20,769	22,379	-	12,436	-	11,004	1,432	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	25,820	17,866	11,954	-	67	-	67	-	-
NATIONAL INSTITUTES OF HEALTH	4,557	2,903	1,654	-	12,369	-	10,937	1,432	-
OFFICE OF HUMAN DEVELOPMENT	8,771	-	8,771	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	346	31	315	-	4,924	-	4,194	730	-
BUREAU OF MINES	-	-	-	-	1,200	-	1,200	-	-
GEOLOGICAL SURVEY	-	-	-	-	3,249	-	2,624	625	-
NATIONAL PARK SERVICE	31	31	-	-	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	315	-	315	-	475	-	370	105	-
DEPARTMENT OF JUSTICE, TOTAL	1,000	-	1,000	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	1,000	-	1,000	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	155	-	155	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	155	-	155	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	25	-	25	-	26	-	26	-	-
OFFICE OF THE SECRETARY	25	-	25	-	21	-	21	-	-
US COAST GUARD	-	-	-	-	5	-	5	-	-
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	1,129	-	271	187	671
BUREAU OF ALCOHOL TOBACCO & FIREARMS	-	-	-	-	80	-	40	40	-
BUREAU OF ENGRAVING AND PRINTING	-	-	-	-	1,049	-	231	147	671
OTHER AGENCIES									
CIVIL SERVICE COMMISSION	740	-	740	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	286,718	-	18,826	261,097	6,795
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	53,380	-	49,020	4,360	-
NATIONAL AERONAUTICS & SPACE ADMIN	9,810	-	508	9,302	19,368	3,092	622	8,171	7,483
NATIONAL SCIENCE FOUNDATION	26	-	26	-	3,899	-	2,055	1,818	26
OFFICE OF TELECOMMUNICATIONS POLICY	90	90	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,554	-	2,554	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	213	-	213	-	-
VETERANS ADMINISTRATION	10,770	8,280	2,490	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-58. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,768,402	671,182	746,195	293,512	57,513	415,700	171,668	90,610	72,910	80,512
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	157,614	154,433	3,181	-	-	9,196	4,091	3,846	-	1,259
AGRICULTURAL RESEARCH SERVICE	78,410	78,410	-	-	-	1,901	327	315	-	1,259
COOPERATIVE STATE RESEARCH SERVICE	48,305	45,124	3,181	-	-	440	440	-	-	-
FOREST SERVICE	30,899	30,899	-	-	-	6,855	3,324	3,531	-	-
DEPARTMENT OF COMMERCE, TOTAL	41,920	41,920	-	-	-	45,599	27,286	1,339	16,974	-
NATIONAL OCEANIC AND ATMOS ADMIN	41,920	41,920	-	-	-	45,599	27,286	1,339	16,974	-
DEPARTMENT OF DEFENSE, TOTAL	93,468	13,840	28,704	49,983	941	88,759	48,997	17,020	21,081	1,661
DEPARTMENT OF THE ARMY	49,057	9,529	28,425	11,103	-	12,272	3,004	9,268	-	-
DEPARTMENT OF THE NAVY	7,408	325	244	6,321	518	13,055	3,402	175	9,478	-
DEPARTMENT OF THE AIR FORCE	32,822	263	-	32,559	-	19,396	18,982	414	-	-
DEFENSE AGENCIES	4,091	3,668	-	-	423	44,036	23,609	7,163	11,603	1,661
DEPARTMENTWIDE FUNDS	90	55	35	-	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,235,182	323,006	675,063	201,693	35,420	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	39,401	23,851	9,586	1,825	4,139	-	-	-	-	-
CENTER FOR DISEASE CONTROL	49,596	-	-	49,596	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	37,077	27,853	-	9,224	-	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	9,224	-	8,874	-	350	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,087,554	258,972	656,603	141,048	30,931	-	-	-	-	-
OFFICE OF HUMAN DEVELOPMENT	12,330	12,330	-	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	12,429	12,369	-	40	20	25,256	4,821	19,585	244	606
BUREAU OF LAND MANAGEMENT	643	643	-	-	-	-	-	-	-	-
BUREAU OF MINES	-	-	-	-	-	2,400	-	2,400	-	-
BUREAU OF RECLAMATION	437	437	-	-	-	4,900	4,652	12	236	-
GEOLOGICAL SURVEY	-	-	-	-	-	15,325	-	15,325	-	-
NATIONAL PARK SERVICE	3,601	3,601	-	-	-	583	1	345	-	237
OFFICE OF WATER RES AND TECHNOLOGY	1,860	1,800	-	40	20	2,048	168	1,503	8	369
US FISH AND WILDLIFE SERVICE	5,888	5,888	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,413	500	-	913	-	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	500	500	-	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	913	-	-	913	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	13,293	10,942	2,155	196	-	2,682	-	2,652	30	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	13,293	10,942	2,155	196	-	2,682	-	2,652	30	-
DEPT OF TRANSPORTATION, TOTAL	769	-	769	-	-	332	34	-	132	166
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	769	-	769	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	200	34	-	-	166
US COAST GUARD	-	-	-	-	-	132	-	-	132	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,490	1,122	-	1,368	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	78,545	50,597	3,957	4,566	19,425	72,300	14,959	21,712	13,787	21,842
ENVIRONMENTAL PROTECTION AGENCY	43,060	37,419	-	5,641	-	3,566	683	1,205	1,678	-
NATIONAL AERONAUTICS & SPACE ADMIN	16,325	1,078	875	13,458	914	158,646	65,241	20,074	18,506	54,825
NATIONAL SCIENCE FOUNDATION	6,759	6,745	-	-	14	9,289	5,545	3,113	478	153
OFFICE OF TELECOMMUNICATIONS POLICY	68	68	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	1,554	1,554	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	75	11	64	-	-
VETERANS ADMINISTRATION	63,513	15,589	31,491	15,654	779	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-59. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,976,295	751,811	840,613	325,618	58,253	458,739	188,563	103,171	83,601	83,404
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	179,370	175,759	3,611	-	-	10,466	4,653	4,378	-	1,435
AGRICULTURAL RESEARCH SERVICE	89,377	89,377	-	-	-	2,167	373	359	-	1,435
COOPERATIVE STATE RESEARCH SERVICE	54,827	51,216	3,611	-	-	498	498	-	-	-
FOREST SERVICE	35,166	35,166	-	-	-	7,801	3,782	4,019	-	-
DEPARTMENT OF COMMERCE, TOTAL	50,147	50,147	-	-	-	48,198	28,911	1,045	18,242	-
NATIONAL OCEANIC AND ATMOS ADMIN	50,147	50,147	-	-	-	48,198	28,911	1,045	18,242	-
DEPARTMENT OF DEFENSE, TOTAL	109,911	17,263	37,697	53,917	1,034	96,929	54,003	17,358	22,434	3,134
DEPARTMENT OF THE ARMY	64,096	11,858	37,396	14,842	-	12,495	3,767	8,728	-	-
DEPARTMENT OF THE NAVY	9,129	311	256	8,053	509	14,424	3,277	-	11,147	-
DEPARTMENT OF THE AIR FORCE	31,272	250	-	31,022	-	25,121	24,587	534	-	-
DEFENSE AGENCIES	5,298	4,773	-	-	525	44,889	22,372	8,096	11,287	3,134
DEPARTMENTWIDE FUNDS	116	71	45	-	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,359,079	342,005	755,054	226,501	35,519	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	43,733	27,221	10,227	1,529	4,756	-	-	-	-	-
CENTER FOR DISEASE CONTROL	60,440	-	-	60,440	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	42,828	32,164	-	10,664	-	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	13,183	-	12,833	-	350	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,180,226	282,620	713,325	153,868	30,413	-	-	-	-	-
OFFICE OF HUMAN DEVELOPMENT	18,669	-	18,669	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	13,264	13,209	-	35	20	30,749	6,604	22,615	244	1,286
BUREAU OF LAND MANAGEMENT	758	758	-	-	-	-	-	-	-	-
BUREAU OF MINES	-	-	-	-	-	2,400	-	2,400	-	-
BUREAU OF RECLAMATION	384	384	-	-	-	6,696	6,454	5	237	-
GEOLOGICAL SURVEY	-	-	-	-	-	18,580	-	18,580	-	-
NATIONAL PARK SERVICE	3,830	3,830	-	-	-	788	10	407	-	371
OFFICE OF THE SECRETARY	-	-	-	-	-	605	-	5	-	600
OFFICE OF WATER RES AND TECHNOLOGY	1,540	1,485	-	35	20	1,680	140	1,218	7	315
US FISH AND WILDLIFE SERVICE	6,752	6,752	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	749	250	-	499	-	135	-	-	-	135
DRUG ENFORCEMENT ADMINISTRATION	250	250	-	-	-		-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	499	-	-	499	-	135	-	-	-	135
DEPARTMENT OF STATE, TOTAL	17,707	15,271	1,936	500	-	5,476	-	5,376	100	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	17,707	15,271	1,936	500	-	5,476	-	5,376	100	-
DEPT OF TRANSPORTATION, TOTAL	1,631	-	1,631	-	-	423	43	-	167	213
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,631	-	1,631	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	256	43	-	-	213
US COAST GUARD	-	-	-	-	-	167	-	-	167	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,107	290	-	1,817	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	88,003	58,745	4,164	5,242	19,849	83,790	16,454	25,947	15,732	25,657
ENVIRONMENTAL PROTECTION AGENCY	57,886	50,096	-	7,790	-	4,338	974	1,046	2,318	-
NATIONAL AERONAUTICS & SPACE ADMIN	15,111	2,314	660	11,497	640	170,504	71,706	23,422	24,003	51,373
NATIONAL SCIENCE FOUNDATION	7,255	6,955	-	-	300	7,612	5,197	1,883	361	171
OFFICE OF TELECOMMUNICATIONS POLICY	50	50	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	1,707	1,707	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	119	18	101	-	-
VETERANS ADMINISTRATION	72,321	17,750	35,860	17,820	891	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-60. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,047,151	791,905	858,640	332,811	63,795	486,928	192,566	111,814	83,386	99,162
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	195,445	191,619	3,826	-	-	11,222	4,954	4,661	-	1,607
AGRICULTURAL RESEARCH SERVICE	100,088	100,088	-	-	-	2,427	418	402	-	1,607
COOPERATIVE STATE RESEARCH SERVICE	58,094	54,268	3,826	-	-	528	528	-	-	-
FOREST SERVICE	37,263	37,263	-	-	-	8,267	4,008	4,259	-	-
DEPARTMENT OF COMMERCE, TOTAL	52,985	52,985	-	-	-	47,069	25,780	1,090	20,199	-
NATIONAL OCEANIC AND ATMOS ADMIN	52,985	52,985	-	-	-	47,069	25,780	1,090	20,199	-
DEPARTMENT OF DEFENSE, TOTAL	116,346	17,155	42,641	55,563	987	109,298	61,562	18,022	25,845	3,869
DEPARTMENT OF THE ARMY	67,603	11,503	42,323	13,777	-	14,468	4,759	9,709	-	-
DEPARTMENT OF THE NAVY	10,165	209	268	9,151	537	16,012	4,062	-	11,950	-
DEPARTMENT OF THE AIR FORCE	32,900	265	-	32,635	-	30,567	29,917	650	-	-
DEFENSE AGENCIES	5,458	5,008	-	-	450	48,251	22,824	7,663	13,895	3,869
DEPARTMENTWIDE FUNDS	220	170	50	-	-	-	-	-	-	-
DEPT OF HEALTH, ED. & WELFARE, TOTAL	1,388,645	352,069	771,873	230,488	34,215	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	42,687	26,386	10,409	1,297	4,595	-	-	-	-	-
CENTER FOR DISEASE CONTROL	59,455	-	-	59,455	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	47,397	35,595	-	11,802	-	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	10,556	-	10,206	-	350		-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,212,667	290,088	735,375	157,934	29,270	-	-	-	-	-
OFFICE OF HUMAN DEVELOPMENT	15,883	-	15,883	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	15,862	15,778	-	54	30	30,593	5,920	23,237	233	1,203
BUREAU OF LAND MANAGEMENT	1,162	1,162	-	-	-	-	-	-	-	-
BUREAU OF MINES	-	-	-	-	-	2,400	-	2,400	-	-
BUREAU OF RECLAMATION	263	263	-	-	-	5,925	5,700	7	218	-
GEOLOGICAL SURVEY	-	-	-	-	-	18,517	-	18,517	-	-
NATIONAL PARK SERVICE	4,460	4,460	-	-	-	925	10	473	-	442
OFFICE OF THE SECRETARY	-	-	-	-	-	286	-	-	-	286
OFFICE OF WATER RES AND TECHNOLOGY	2,329	2,245	-	54	30	2,540	210	1,840	15	475
US FISH AND WILDLIFE SERVICE	7,648	7,648	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	200	200	-	-	-	200	-	-	-	200
DRUG ENFORCEMENT ADMINISTRATION	200	200	-	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	-	200	-	-	-	200
DEPARTMENT OF STATE, TOTAL	27,258	23,923	2,300	1,035	-	1,850	-	950	500	400
AGENCY FOR INTERNATIONAL DEVELOPMENT	27,258	23,923	2,300	1,035	-	1,850	-	950	500	400
DEPT OF TRANSPORTATION, TOTAL	1,064	-	1,064	-	-	357	40	-	117	200
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,064	-	1,064	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	-	240	40	-	-	200
US COAST GUARD	-	-	-	-	-	117	-	-	117	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,059	315	-	1,744	-		-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	95,443	64,075	-	5,845	25,523	92,398	15,442	27,091	15,888	33,977
ENVIRONMENTAL PROTECTION AGENCY	49,920	43,241	-	6,679	-	3,820	849	984	1,987	-
NATIONAL AERONAUTICS & SPACE ADMIN	18,346	2,672	660	13,374	1,640	179,214	71,458	31,816	18,436	57,504
NATIONAL SCIENCE FOUNDATION	8,356	7,856	-	-	500	6,778	2,542	3,853	181	202
OFFICE OF TELECOMMUNICATIONS POLICY	50	50	-	-	-		-	-	-	-
TENNESSEE VALLEY AUTHORITY	2,010	2,010	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	129	19	110	-	-
VETERANS ADMINISTRATION	73,162	17,957	36,276	18,029	900	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-61. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,138,028	752,086	234,534	78,157	104,729	219,143	110,052	198,374	440,953
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	27,605	-	-	2,600	3,665	244	2,140	-	18,956
AGRICULTURAL RESEARCH SERVICE	18,028	-	-	2,392	1,951	88	894	-	12,703
COOPERATIVE STATE RESEARCH SERVICE	2,410	-	-	-	-		-	-	2,410
FOREST SERVICE	7,167	-	-	208	1,714	156	1,246	-	3,843
DEPARTMENT OF COMMERCE, TOTAL	15,806	-	-	62	4,959	3,007	727	1,182	5,869
MARITIME ADMINISTRATION	3,431	-	-	-	2,288	381	381	-	381
NATIONAL BUREAU OF STANDARDS	11,251	-	-	-	2,113	2,329	284	1,182	5,343
NATIONAL OCEANIC AND ATMOS ADMIN	703	-	-	-	558	-	-	-	145
OFFICE OF TELECOMMUNICATIONS	234	-	-	-	-	234	-	-	-
PATENT & TRADEMARK OFFICE	187	-	-	62	-	63	62	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,046,099	357,926	77,164	23,871	40,898	154,424	61,714	71,422	258,680
DEPARTMENT OF THE ARMY	133,137	24,605	50	6,083	11,622	38,876	15,921	10,175	25,805
DEPARTMENT OF THE NAVY	127,776	11,255	-	9,368	3,599	38,505	23,360	10,269	31,420
DEPARTMENT OF THE AIR FORCE	657,407	318,060	75,475	8,420	7,088	45,370	16,358	43,493	143,143
DEFENSE AGENCIES	127,563	4,006	1,639	-	18,485	31,648	6,057	7,485	58,243
DEPARTMENTWIDE FUNDS	216	-	-	-	104	25	18	-	69
DEPT OF HEALTH, ED, & WELFARE, TOTAL	15,452	-	-	-	-	-	-	-	15,452
NATIONAL INSTITUTES OF HEALTH	15,452	-	-	-	-	-	-	-	15,452
DEPT OF HOUSING & URBAN DEVELOPMENT	4,645	-	-	-	-	-	-	-	4,645
DEPARTMENT OF THE INTERIOR, TOTAL	76,509	-	-	12,374	12,793	5,539	6,080	39,046	677
BONNEVILLE POWER ADMINISTRATION	462	-	-	-	-	462	-	-	-
BUREAU OF MINES	67,400	-	-	12,300	5,400	5,000	5,700	39,000	-
BUREAU OF RECLAMATION	2,311	-	-	5	2,226	60	10	-	10
GEOLOGICAL SURVEY	2,118	-	-	-	1,813	5	300	-	-
OFFICE OF THE SECRETARY	70	-	-	-	-	-	70	-	-
OFFICE OF WATER RES AND TECHNOLOGY	4,148	-	-	69	3,354	12	-	46	667
DEPARTMENT OF JUSTICE, TOTAL	82	-	-	-	-	82	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	82	-	-	-	-	82	-	-	-
DEPARTMENT OF STATE, TOTAL	525	-	-	-	235	-	290	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	525	-	-	-	235	-	290	-	-
DEPT OF TRANSPORTATION, TOTAL	25,751	1,767	318	-	20,878	1,170	1,618	-	-
FEDERAL AVIATION ADMINISTRATION	3,600	496	318	-	2,266	520	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	1,900	-	-	-	1,900	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	7,050	-	-	-	7,050	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	8,583	-	-	-	7,238	-	1,345	-	-
OFFICE OF THE SECRETARY	2,727	1,071	-	-	1,656		-	-	-
US COAST GUARD	1,291	200	-	-	168	650	273	-	-
URBAN MASS TRANSPORTATION ADMIN	600	-	-	-	600	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	472	-	-	-	-	-	-	472	-
BUREAU OF ENGRAVING AND PRINTING	472	-	-	-	-	-	-	472	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	822	-	-	-	-	20	802	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	39,515	-	-	11,876	1,000	100	2,822	14,421	9,296
ENVIRONMENTAL PROTECTION AGENCY	45,197	-	-	16,988	17,750	5,232	5,227	-	-
FEDERAL COMMUNICATIONS COMMISSION	921	-	-	-	-	921	-	-	-
FEDERAL ENERGY ADMINISTRATION	119	-	-	-	119		-	-	-
GENERAL SERVICES ADMINISTRATION	296	-	-	-	196	6	-	-	94
NATIONAL AERONAUTICS & SPACE ADMIN	719,731	392,393	156,988	8,159	1,145	46,703	28,081	69,839	16,423
NATIONAL SCIENCE FOUNDATION	15,506	-	-	532	562	531	551	1,992	11,338
NUCLEAR REGULATORY COMMISSION	88,432	-	-	-	-	-	-	-	88,432
OFFICE OF TELECOMMUNICATIONS POLICY	1,128	-	40	-	-	1,010	-	-	78
TENNESSEE VALLEY AUTHORITY	13,057	-	-	1,695	529	-	-	-	10,833
US ARMS CONTROL & DISARMAMENT AGENCY	255	-	24	-	-	55	-	-	180
US INFORMATION AGENCY	99	-	-	-	-	99	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-62. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,333,818	781,820	244,771	95,413	128,696	259,833	117,721	199,351	506,213
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	31,440	-	-	2,963	4,174	277	2,437	-	21,589
AGRICULTURAL RESEARCH SERVICE	20,550	-	-	2,727	2,224	100	1,019	-	14,480
COOPERATIVE STATE RESEARCH SERVICE	2,735	-	-	-	-	-	-	-	2,735
FOREST SERVICE	8,155	-	-	236	1,950	177	1,418	-	4,374
DEPARTMENT OF COMMERCE, TOTAL	16,884	-	-	74	5,092	3,328	655	1,342	6,393
MARITIME ADMINISTRATION	2,780	-	-	-	2,006	258	258	-	258
NATIONAL BUREAU OF STANDARDS	12,802	-	-	-	2,429	2,644	322	1,342	6,065
NATIONAL OCEANIC AND ATMOS ADMIN	780	-	-	-	657	53	-	-	70
OFFICE OF TELECOMMUNICATIONS	299	-	-	-	-	299	-	-	-
PATENT & TRADEMARK OFFICE	223	-	-	74	-	74	75	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,105,867	361,063	82,900	26,511	46,845	180,340	63,003	76,150	269,055
DEPARTMENT OF THE ARMY	164,681	29,499	-	6,988	13,862	52,702	17,674	13,711	30,245
DEPARTMENT OF THE NAVY	128,662	6,523	-	9,819	4,021	38,575	22,345	9,643	37,736
DEPARTMENT OF THE AIR FORCE	653,494	316,167	75,026	8,372	7,045	45,099	16,259	43,234	142,292
DEFENSE AGENCIES	158,752	8,874	7,874	1,200	21,884	43,941	6,725	9,562	58,692
DEPARTMENTWIDE FUNDS	278	-	-	132	33	23	-	-	90
DEPT OF HEALTH, ED. & WELFARE, TOTAL	16,860	-	-	-	-	-	-	-	16,860
NATIONAL INSTITUTES OF HEALTH	16,860	-	-	-	-	-	-	-	16,860
DEPT OF HOUSING & URBAN DEVELOPMENT	3,855	-	-	-	-	-	-	-	3,855
DEPARTMENT OF THE INTERIOR, TOTAL	83,052	-	-	13,375	13,414	6,195	7,731	41,835	502
BONNEVILLE POWER ADMINISTRATION	220	-	-	-	-	220	-	-	-
BUREAU OF MINES	73,700	-	-	13,300	6,400	5,800	6,400	41,800	-
BUREAU OF RECLAMATION	2,651	-	-	5	2,554	65	15	-	12
GEOLOGICAL SURVEY	2,130	-	-	-	1,830	50	250	-	-
OFFICE OF THE SECRETARY	1,201	-	-	-	85	50	1,066	-	-
OFFICE OF WATER RES AND TECHNOLOGY	3,150	-	-	70	2,545	10	-	35	490
DEPARTMENT OF JUSTICE, TOTAL	496	-	-	51	-	445	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	250	-	-	-	-	250	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	246	-	-	51	-	195	-	-	-
DEPARTMENT OF STATE, TOTAL	500	-	-	-	-	-	-	-	500
AGENCY FOR INTERNATIONAL DEVELOPMENT	500	-	-	-	-	-	-	-	500
DEPT OF TRANSPORTATION, TOTAL	38,454	2,330	450	-	30,913	1,562	3,199	-	-
FEDERAL AVIATION ADMINISTRATION	5,100	703	450	-	3,210	737	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	-	-	-	2,000	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	7,215	-	-	-	7,215	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	18,205	-	-	-	15,352	-	2,853	-	-
OFFICE OF THE SECRETARY	3,496	1,373	-	-	2,123	-	-	-	-
US COAST GUARD	1,638	254	-	-	213	825	346	-	-
URBAN MASS TRANSPORTATION ADMIN	800	-	-	-	800	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	463	-	-	-	-	-	-	463	-
BUREAU OF ENGRAVING AND PRINTING	463	-	-	-	-	-	-	463	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	1,075	-	-	-	-	27	1,048	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	54,750	-	-	15,419	1,324	392	809	15,568	21,238
ENVIRONMENTAL PROTECTION AGENCY	62,878	-	-	23,894	24,522	7,168	7,294	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,141	-	-	-	-	1,141	-	-	-
GENERAL SERVICES ADMINISTRATION	96	-	-	-	76	-	-	-	20
NATIONAL AERONAUTICS & SPACE ADMIN	762,502	418,427	161,354	10,739	1,521	56,326	30,920	62,837	20,378
NATIONAL SCIENCE FOUNDATION	13,751	-	-	601	675	675	625	1,156	10,019
NUCLEAR REGULATORY COMMISSION	113,888	-	-	-	-	-	-	-	113,888
OFFICE OF TELECOMMUNICATIONS POLICY	1,765	-	29	-	-	1,736	-	-	-
TENNESSEE VALLEY AUTHORITY	23,557	-	-	1,786	140	-	-	-	21,631
US ARMS CONTROL & DISARMAMENT AGENCY	410	-	38	-	-	87	-	-	285
US INFORMATION AGENCY	134	-	-	-	-	134	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-63. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,513,653	813,728	267,088	98,753	124,933	287,687	125,879	245,142	546,443
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	34,553	-	-	3,305	4,558	300	2,644	-	23,746
AGRICULTURAL RESEARCH SERVICE	23,013	-	-	3,054	2,491	112	1,141	-	16,215
COOPERATIVE STATE RESEARCH SERVICE	2,898	-	-	-	-	-	-	-	2,898
FOREST SERVICE	8,642	-	-	251	2,067	188	1,503	-	4,633
DEPARTMENT OF COMMERCE, TOTAL	15,714	-	-	74	4,607	3,305	484	1,122	6,122
MARITIME ADMINISTRATION	2,549	-	-	-	1,838	237	237	-	237
NATIONAL BUREAU OF STANDARDS	11,963	-	-	-	2,201	2,644	172	1,122	5,824
NATIONAL OCEANIC AND ATMOS ADMIN	680	-	-	-	568	51	-	-	61
OFFICE OF TELECOMMUNICATIONS	299	-	-	-	-	299	-	-	-
PATENT & TRADEMARK OFFICE	223	-	-	74	-	74	75	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,210,234	389,410	101,716	32,348	53,946	207,957	78,159	79,630	267,068
DEPARTMENT OF THE ARMY	157,507	36,727	-	12,113	16,873	67,097	30,255	13,933	20,509
DEPARTMENT OF THE NAVY	136,594	7,954	-	9,918	4,328	41,282	23,558	11,010	38,544
DEPARTMENT OF THE AIR FORCE	651,932	334,764	79,439	8,364	7,459	47,752	17,215	45,777	150,662
DEFENSE AGENCIES	163,676	9,965	22,277	1,203	25,221	51,786	7,131	8,910	57,183
DEPARTMENTWIDE FUNDS	525	-	-	250	65	40	-	-	170
DEPT OF HEALTH, ED, & WELFARE, TOTAL	17,317	-	-	-	-	-	-	-	17,317
NATIONAL INSTITUTES OF HEALTH	17,317	-	-	-	-	-	-	-	17,317
DEPT OF HOUSING & URBAN DEVELOPMENT	3,900	-	-	-	-	-	-	-	3,900
DEPARTMENT OF THE INTERIOR, TOTAL	79,899	-	-	13,010	13,412	5,920	5,855	40,950	752
BONNEVILLE POWER ADMINISTRATION	470	-	-	-	-	470	-	-	-
BUREAU OF MINES	70,300	-	-	12,900	5,600	5,300	5,600	40,900	-
BUREAU OF RECLAMATION	2,254	-	-	5	2,147	85	5	-	12
GEOLOGICAL SURVEY	2,125	-	-	-	1,825	50	250	-	-
OFFICE OF WATER RES AND TECHNOLOGY	4,750	-	-	105	3,840	15	-	50	740
DEPARTMENT OF JUSTICE, TOTAL	525	-	-	-	-	525	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	-	400	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	125	-	-	-	-	125	-	-	-
DEPARTMENT OF STATE, TOTAL	200	-	-	-	-	-	200	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	200	-	-	-	-	-	200	-	-
DEPT OF TRANSPORTATION, TOTAL	30,862	2,253	503	100	24,506	1,398	2,102	-	-
FEDERAL AVIATION ADMINISTRATION	5,700	785	503	-	3,589	823	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,000	-	-	-	2,000	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	5,655	-	-	-	5,655	-	-	-	-
MATERIALS TRANSPORTATION BUREAU	100	-	-	100	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	11,878	-	-	-	10,017	-	1,861	-	-
OFFICE OF THE SECRETARY	3,287	1,291	-	-	1,996	-	-	-	-
US COAST GUARD	1,142	177	-	-	149	575	241	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	1,100	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	496	-	-	-	-	-	-	496	-
BUREAU OF ENGRAVING AND PRINTING	496	-	-	-	-	-	-	496	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	869	-	-	-	-	35	834	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	61,890	-	-	14,956	300	2,000	1,644	18,077	24,913
ENVIRONMENTAL PROTECTION AGENCY	53,912	-	-	20,487	21,026	6,254	6,145	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,214	-	-	-	-	1,214	-	-	-
GENERAL SERVICES ADMINISTRATION	234	-	-	-	124	85	-	-	25
NATIONAL AERONAUTICS & SPACE ADMIN	819,431	422,065	164,778	11,341	1,542	56,725	31,119	103,622	28,239
NATIONAL SCIENCE FOUNDATION	18,888	-	-	668	745	745	693	1,245	14,792
NUCLEAR REGULATORY COMMISSION	139,100	-	-	-	-	-	-	-	139,100
OFFICE OF TELECOMMUNICATIONS POLICY	1,069	-	50	-	-	1,009	-	-	10
TENNESSEE VALLEY AUTHORITY	22,781	-	-	2,464	167	-	-	-	20,150
US ARMS CONTROL & DISARMAMENT AGENCY	445	-	41	-	-	95	-	-	309
US INFORMATION AGENCY	120	-	-	-	-	120	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	82,700	36,933	44,046	1,721	304,745	7,158	112,388	4,240	37,031	143,928
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,457	2,457	-	-	42,341	-	40,094	-	1,764	483
AGRICULTURAL RESEARCH SERVICE	692	692	-	-	1,398	-	1,309	-	13	76
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	15,631	-	14,803	-	828	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	20,368	-	19,350	-	611	407
FARMER COOPERATIVE SERVICE	-	-	-	-	1,205	-	1,205	-	-	-
FOREST SERVICE	623	623	-	-	3,739	-	3,427	-	312	-
STATISTICAL REPORTING SERVICE	1,142	1,142	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	3,760	1,730	2,030	-	6,959	-	6,739	-	220	-
BUREAU OF THE CENSUS	1,263	1,060	203	-	470	-	250	-	220	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	388	-	388	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	381	-	381	-	-	-
NATIONAL BUREAU OF STANDARDS	2,497	670	1,827	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	5,315	-	5,315	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	-	-	-	-	405	-	405	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	51,132	13,032	37,739	361	3,753	17	854	891	301	1,690
DEPARTMENT OF THE ARMY	4,027	1,903	2,124	-	1,959	17	609	-	273	1,060
DEPARTMENT OF THE NAVY	23,793	3,764	19,718	311	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	2,499	1,100	1,399	-	-	-	-	-	-	-
DEFENSE AGENCIES	20,751	6,240	14,461	50	1,735	-	220	885	-	630
DEPARTMENTWIDE FUNDS	62	25	37	-	59	-	25	6	28	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	16,892	16,892	-	-	138,702	3,478	15,369	490	22,049	97,316
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	777	777	-	-	14,617	3,478	137	-	9,350	1,652
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	25,407	-	1,471	490	245	23,201
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	5,717	-	-	-	-	5,717
NATIONAL INSTITUTES OF HEALTH	16,115	16,115	-	-	7,944	-	-	-	-	7,944
OFFICE OF EDUCATION	-	-	-	-	21,428	-	-	-	-	21,428
OFFICE OF HUMAN DEVELOPMENT	-	-	-	-	16,041	-	-	-	-	16,041
OFFICE OF ASS'T SECTY FOR EDUCATION	-	-	-	-	1,037	-	-	-	-	1,037
OFFICE OF THE SECRETARY	-	-	-	-	18,831	-	13,761	-	5,070	-
SOCIAL AND REHABILITATION SERVICE	-	-	-	-	18,580	-	-	-	7,384	11,196
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	9,100	-	-	-	-	9,100
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	32,300	-	12,900	-	-	19,400
DEPARTMENT OF THE INTERIOR, TOTAL	2,170	1,678	441	51	5,398	3,623	560	421	440	354
BUREAU OF LAND MANAGEMENT	-	-	-	-	10	10	-	-	-	-
BUREAU OF MINES	1,600	1,600	-	-	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	-	-	-	-	20	-	-	-	-	20
BUREAU OF RECLAMATION	-	-	-	-	207	30	74	-	103	-
GEOLOGICAL SURVEY	519	78	441	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	3,934	3,573	16	-	155	190
OFFICE OF WATER RES AND TECHNOLOGY	51	-	-	51	1,227	10	470	421	182	144
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	10,873	-	-	-	10,295	578
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	10,873	-	-	-	10,295	578
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	16,835	-	16,005	-	830	-
BUREAU OF LABOR STATISTICS	-	-	-	-	776	-	776	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	6,705	-	5,875	-	830	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	4,268	-	4,268	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	405	-	405	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	2,900	-	2,900	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,781	-	1,781	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	8,219	-	5,565	1,121	302	1,231
DEPARTMENTAL FUNDS	-	-	-	-	1,121	-	-	1,121	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	-	-	-	-	7,098	-	5,565	-	302	1,231
DEPT OF TRANSPORTATION, TOTAL	766	141	387	238	3,437	-	1,373	64	173	1,827
FEDERAL RAILROAD ADMINISTRATION	-	-	-	-	1,550	-	500	-	-	1,050
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	469	94	137	238	79	-	79	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	934	-	514	64	173	183
US COAST GUARD	297	47	250	-	874	-	280	-	-	594

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TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ACTION	-	-	-	-	43	-	-	-	43	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	-	-	-	-	1,026	-	513	513	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	719	-	719	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	445	-	445	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	165	-	165	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	2,309	-	2,309	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,330	466	1,864	-	1,900	-	1,520	-	380	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	613	-	613	-	-	-
FEDERAL ENERGY ADMINISTRATION	-	-	-	-	929	-	929	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	782	-	782	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	550	-	550	-	-	-
INTERSTATE COMMERCE COMMISSION	88	88	-	-	35	-	35	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	906	-	-	906	1,744	-	1,647	57	-	40
NATIONAL SCIENCE FOUNDATION	1,846	96	1,585	165	22,104	40	886	77	234	20,867
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	304	-	138	100	-	66
SMALL BUSINESS ADMINISTRATION	-	-	-	-	52	-	52	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	101		101	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	353	353	-	-	531	-	25	506	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	1,500	-	1,500	-	-	-
VETERANS ADMINISTRATION	-	-	-	-	76	-	-	-	-	76

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-65. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES: TOTAL	MATHEMATICS AND COMPUTER SCIENCES: MATHEMATICS	MATHEMATICS AND COMPUTER SCIENCES: COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES: MATHEMATICS AND COMPUTER SCIENCES NEC	SOCIAL SCIENCES: TOTAL	SOCIAL SCIENCES: ANTHROPOLOGY	SOCIAL SCIENCES: ECONOMICS	SOCIAL SCIENCES: POLITICAL SCIENCE	SOCIAL SCIENCES: SOCIOLOGY	SOCIAL SCIENCES: SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	86,230	40,103	43,276	2,851	354,571	5,998	123,617	4,824	44,532	175,600
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,823	2,823	-	-	47,196	-	44,687	-	1,978	531
AGRICULTURAL RESEARCH SERVICE	789	789	-	-	1,593	-	1,493	-	14	86
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	17,741	-	16,801	-	940	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	22,270	-	21,157	-	668	445
FARMER COOPERATIVE SERVICE	-	-	-	-	1,335	-	1,335	-	-	-
FOREST SERVICE	709	709	-	-	4,257	-	3,901	-	356	-
STATISTICAL REPORTING SERVICE	1,325	1,325	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,152	1,861	2,291	-	7,774	-	7,524	-	250	-
BUREAU OF THE CENSUS	1,317	1,100	217	-	550	-	300	-	250	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	391	-	391	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	259	-	259	-	-	-
NATIONAL BUREAU OF STANDARDS	2,835	761	2,074	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	6,374	-	6,374	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	-	-	-	-	200	-	200	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	50,101	11,269	37,404	1,428	4,583	-	778	283	415	3,107
DEPARTMENT OF THE ARMY	5,749	3,020	2,729	-	4,171	-	686	-	378	3,107
DEPARTMENT OF THE NAVY	25,706	3,929	20,449	1,328	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	544	250	294	-	-	-	-	-	-	-
DEFENSE AGENCIES	18,023	4,030	13,893	100	335	-	60	275	-	-
DEPARTMENTWIDE FUNDS	79	40	39	-	77	-	32	8	37	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	18,517	18,517	-	-	170,048	2,126	14,284	478	25,969	127,191
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	885	885	-	-	14,976	2,126	154	-	10,826	1,870
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	25,006	-	1,434	478	239	22,855
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	13,000	-	-	-	-	13,000
NATIONAL INSTITUTES OF HEALTH	17,632	17,632	-	-	8,626	-	-	-	-	8,626
OFFICE OF EDUCATION	-	-	-	-	27,900	-	-	-	-	27,900
OFFICE OF HUMAN DEVELOPMENT	-	-	-	-	22,178	-	-	-	-	22,178
OFFICE OF ASS'T SECTY FOR EDUCATION	-	-	-	-	1,037	-	-	-	-	1,037
OFFICE OF THE SECRETARY	-	-	-	-	18,400	-	12,696	-	5,704	-
SOCIAL AND REHABILITATION SERVICE	-	-	-	-	29,325	-	-	-	9,200	20,125
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	9,600	-	-	-	-	9,600
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	30,245	-	13,146	-	-	17,099
DEPARTMENT OF THE INTERIOR, TOTAL	2,350	1,687	593	70	5,245	3,572	465	375	479	354
BUREAU OF LAND MANAGEMENT	-	-	-	-	62	10	-	-	52	-
BUREAU OF MINES	1,600	1,600	-	-	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	-	-	-	-	20		-	-	-	20
BUREAU OF RECLAMATION	-	-	-	-	157	10	102	-	45	-
GEOLOGICAL SURVEY	680	87	593	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,026	3,542	13	-	242	229
OFFICE OF WATER RES AND TECHNOLOGY	70	-	-	70	980	10	350	375	140	105
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	12,864	-	130	625	11,447	662
BUREAU OF PRISONS	-	-	-	-	297	-	30	-	197	70
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	12,567	-	100	625	11,250	592
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	20,668	-	20,065	-	603	-
BUREAU OF LABOR STATISTICS	-	-	-	-	896	-	896	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	5,851	-	5,248	-	603	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	5,535	-	5,535	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,774		2,774	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	3,300	-	3,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	2,312	-	2,312	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	8,478	300	4,822	1,332	931	1,093
DEPARTMENTAL FUNDS	-	-	-	-	1,332	-	-	1,332	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	-	-	-	-	7,146	300	4,822	-	931	1,093
DEPT OF TRANSPORTATION, TOTAL	1,371	259	607	505	4,063	-	1,697	82	222	2,062
FEDERAL RAILROAD ADMINISTRATION	-	-	-	-	1,585		512	-	-	1,073
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	994	199	290	505	170	-	170	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,198	-	659	82	222	235
US COAST GUARD	377	60	317	-	1,110	-	356	-	-	754

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TABLE C-65. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ACTION	-	-	-	-	2	-	-	-	2	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	-	-	-	-	1,172	-	586	586	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	800	-	800	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	496	-	496	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,400	-	-	-	1,400	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	120	-	120	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	3,720	-	1,944	-	-	1,776
ENVIRONMENTAL PROTECTION AGENCY	3,219	2,575	644	-	2,575	-	2,060	-	515	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	919	-	919	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	995	-	995	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	755	-	755	-	-	-
INTERSTATE COMMERCE COMMISSION	45	45	-	-	573	-	573	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	848	-	-	848	1,931	-	1,481	65	-	385
NATIONAL SCIENCE FOUNDATION	2,245	508	1,737	-	22,755	-	1,079	157	321	21,198
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	258	-	200	-	-	58
SMALL BUSINESS ADMINISTRATION	-	-	-	-	1,027	-	1,027	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	144	-	144	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	559	559	-	-	881	-	40	841	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	2,800	-	2,800	-	-	-
VETERANS ADMINISTRATION	-	-	-	-	84	-	-	-	-	84

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	96,057	41,924	50,473	3,660	368,778	7,227	134,112	4,994	50,197	172,248
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,960	2,960	-	-	50,745	-	48,053	-	1,817	875
AGRICULTURAL RESEARCH SERVICE	883	883	-	-	1,784	-	1,671	-	17	96
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	18,797	-	17,801	-	996	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	24,081	-	22,874	-	428	779
FARMER COOPERATIVE SERVICE	-	-	-	-	1,574	-	1,574	-	-	-
FOREST SERVICE	752	752	-	-	4,509	-	4,133	-	376	-
STATISTICAL REPORTING SERVICE	1,325	1,325	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,236	1,931	2,305	-	8,361	-	8,111	-	250	-
BUREAU OF THE CENSUS	1,401	1,170	231	-	550	-	300	-	250	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,000	-	1,000	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	236	-	236	-	-	-
NATIONAL BUREAU OF STANDARDS	2,835	761	2,074	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	-	-	-	-	6,247	-	6,247	-	-	-
OFFICE OF MINORITY BUSINESS ENTERP	-	-	-	-	328	-	328	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	58,673	12,820	44,615	1,238	3,334	-	1,449	145	557	1,183
DEPARTMENT OF THE ARMY	11,337	3,597	7,740	-	2,995	-	1,359	-	503	1,133
DEPARTMENT OF THE NAVY	26,787	4,303	21,366	1,118	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	89	40	49	-	-	-	-	-	-	-
DEFENSE AGENCIES	20,310	4,820	15,370	120	195	-	-	145	-	50
DEPARTMENTWIDE FUNDS	150	60	90	-	144	-	90	-	54	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	18,957	18,957	-	-	175,255	2,091	15,822	483	26,352	130,507
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	859	859	-	-	14,584	2,091	152	-	10,522	1,819
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	25,270	-	1,450	483	242	23,095
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	18,100	-	-	-	-	18,100
NATIONAL INSTITUTES OF HEALTH	18,098	18,098	-	-	8,854	-	-	-	-	8,854
OFFICE OF EDUCATION	-	-	-	-	24,374	-	-	-	-	24,374
OFFICE OF HUMAN DEVELOPMENT	-	-	-	-	19,028	-	-	-	-	19,028
OFFICE OF ASS'T SECTY FOR EDUCATION	-	-	-	-	1,037	-	-	-	-	1,037
OFFICE OF THE SECRETARY	-	-	-	-	20,608	-	14,220	-	6,388	-
SOCIAL AND REHABILITATION SERVICE	-	-	-	-	31,200	-	-	-	9,200	22,000
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	12,200	-	-	-	-	12,200
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	28,400	-	15,800	-	-	12,600
DEPARTMENT OF THE INTERIOR, TOTAL	2,530	1,694	731	105	6,670	4,436	613	570	567	484
BUREAU OF LAND MANAGEMENT	-	-	-	-	73	40	-	-	33	-
BUREAU OF MINES	1,600	1,600	-	-	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	-	-	-	-	20	-	-	-	-	20
BUREAU OF RECLAMATION	-	-	-	-	154	25	70	-	59	-
GEOLOGICAL SURVEY	825	94	731	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,943	4,361	13	-	265	304
OFFICE OF WATER RES AND TECHNOLOGY	105	-	-	105	1,480	10	530	570	210	160
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	18,300	-	200	-	15,035	3,065
BUREAU OF PRISONS	-	-	-	-	1,000	-	200	-	500	300
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	15,300	-	-	-	14,535	765
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	2,000	-	-	-	-	2,000
DEPARTMENT OF LABOR, TOTAL	100	40	60	-	20,317	-	19,798	-	519	-
BUREAU OF LABOR STATISTICS	-	-	-	-	787	-	787	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	5,030	-	4,511	-	519	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	5,550	-	5,550	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,850	-	2,850	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	100	40	60	-	4,200	-	4,200	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,900	-	1,900	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	13,458	700	6,602	1,832	3,624	700
DEPARTMENTAL FUNDS	-	-	-	-	1,832	-	-	1,832	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	-	-	-	-	11,626	700	6,602	-	3,624	700
DEPT OF TRANSPORTATION, TOTAL	912	172	411	329	3,254	-	1,375	77	209	1,593
FEDERAL RAILROAD ADMINISTRATION	-	-	-	-	1,245	-	400	-	-	845
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	649	130	190	329	109	-	109	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,127	-	619	77	209	222
US COAST GUARD	263	42	221	-	773	-	247	-	-	526

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TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ADV COMM ON INTERGOVERNMNTL RELATIONS	-	-	-	-	1,379	-	690	689	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	800	-	800	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	496	-	496	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	500	-	-	-	500	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	60	-	60	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	3,000	-	2,000	-	-	1,000
ENVIRONMENTAL PROTECTION AGENCY	2,760	2,208	552	-	2,208	-	1,767	-	441	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	930	-	930	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	993	-	993	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	840	-	840	-	-	-
INTERSTATE COMMERCE COMMISSION	94	-	94	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,988	-	-	1,988	1,778	-	1,408	65	-	305
NATIONAL SCIENCE FOUNDATION	2,240	535	1,705	-	21,364	-	1,082	160	326	19,796
OFFICE OF TELECOMMUNICATIONS POLICY	-	-	-	-	1,200	-	1,090	60	-	50
SMALL BUSINESS ADMINISTRATION	-	-	-	-	1,100	-	1,100	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	190	-	190	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	607	607	-	-	956	-	43	913	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	2,800	-	2,800	-	-	-
VETERANS ADMINISTRATION	-	-	-	-	90	-	-	-	-	90

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-67. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	12,885,275	2,841,829	8,050,406	666,206	258,257	511,999	250,038	173,310	108,823	24,407
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	20,225	19,202	139	-	484	-	16	-	-	384
AGRICULTURAL RESEARCH SERVICE	14,527	13,531	139	-	457	-	16	-	-	384
FOREST SERVICE	5,398	5,398	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	300	273	-	-	27	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	73,140	31,692	17,199	-	8,678	451	6,120	282	8,718	-
BUREAU OF THE CENSUS	357	357	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	13,008	300	432	-	2,676	-	4,236	-	5,364	-
MARITIME ADMINISTRATION	14,045	1,799	10,912	-	409	-	354	183	388	-
NATIONAL BUREAU OF STANDARDS	9,914	9,682	99	-	25	-	108	-	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	3,237	999	204	-	760	451	251	65	507	-
NATIONAL OCEANIC AND ATMOS ADMIN	30,224	17,420	5,477	-	4,808	-	255	34	2,230	-
OFFICE OF MINORITY BUSINESS ENTERP	1,622	402	75	-	-	-	916	-	229	-
OFFICE OF TELECOMMUNICATIONS	546	546	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	187	187	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	7,866,963	2,149,015	5,302,354	81,167	18,569	113,000	64,311	132,213	-	6,334
DEPARTMENT OF THE ARMY	1,707,228	544,600	1,133,854	153	9,275	12,418	4,640	2,080	-	208
DEPARTMENT OF THE NAVY	3,013,105	833,772	1,967,213	81,014	2,550	70,629	49,120	4,110	-	4,697
DEPARTMENT OF THE AIR FORCE	2,905,027	657,090	2,091,750	-	2,831	27,870	3,297	120,760	-	1,429
DEFENSE AGENCIES	217,513	92,169	108,524	-	3,913	2,083	7,254	3,570	-	-
DIRECTOR OF TEST & EVALUATION, DEF	24,090	21,384	1,013	-	-	-	-	1,693	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	382,988	29,586	70,075	-	151,112	169	85,947	1,037	37,739	7,323
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	2,838	25	2,813	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	7,184	1,847	31	-	1,879	-	925	-	81	2,421
HEALTH SERVICES ADMINISTRATION	8,004	1,795	-	-	3,039	-	2,735	-	435	-
NATIONAL INSTITUTE OF EDUCATION	52,918	9,556	3,288	-	13,986	-	19,905	-	5,980	203
NATIONAL INSTITUTES OF HEALTH	242,713	13,120	57,177	-	111,359	-	49,002	795	6,561	4,699
OFFICE OF EDUCATION	36,781	400	649	-	11,971	169	2,398	169	21,025	-
OFFICE OF HUMAN DEVELOPMENT	27,250	1,943	3,941	-	7,487	-	10,387	-	3,492	-
SOCIAL SECURITY ADMINISTRATION	5,300	900	2,176	-	1,391	-	595	73	165	-
DEPT OF HOUSING & URBAN DEVELOPMENT	30,630	4,720	11,989	589	-	-	7,662	-	5,670	-
DEPARTMENT OF THE INTERIOR, TOTAL	73,740	39,328	29,472	-	3,492	661	-	378	89	320
BONNEVILLE POWER ADMINISTRATION	6,548	3,400	2,639	-	198	-	-	198	-	113
BUREAU OF LAND MANAGEMENT	76	76	-	-	-	-	-	-	-	-
BUREAU OF MINES	58,000	31,241	22,358	-	3,264	661	-	180	89	207
BUREAU OF RECLAMATION	376	344	2	-	30	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	5,060	537	4,473	-	-	-	-	-	-	-
US FISH AND WILDLIFE SERVICE	3,680	3,680	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	15,542	2,656	1,934	-	432	-	728	9,792	-	-
BUREAU OF PRISONS	761	420	60	-	211	-	70	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	2,000	400	850	-	-	-	-	750	-	-
FEDERAL BUREAU OF INVESTIGATION	1,245	221	1,024	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	11,536	1,615	-	-	221	-	658	9,042	-	-
DEPARTMENT OF LABOR, TOTAL	10,533	1,593	1,602	-	2,200	166	3,989	-	983	-
BUREAU OF LABOR STATISTICS	532	532	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	10,001	1,061	1,602	-	2,200	166	3,989	-	983	-
DEPARTMENT OF STATE, TOTAL	14,246	474	706	-	2,137	-	4,104	-	-	6,825
DEPARTMENTAL FUNDS	490	50	440	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	13,756	424	266	-	2,137	-	4,104	-	-	6,825
DEPT OF TRANSPORTATION, TOTAL	263,400	52,294	144,379	-	12,349	2,344	2,516	10,909	38,513	96
FEDERAL AVIATION ADMINISTRATION	94,500	21,255	61,444	-	570	1,425	-	9,806	-	-
FEDERAL HIGHWAY ADMINISTRATION	27,000	294	6,120	-	4,967	-	-	-	15,619	-
FEDERAL RAILROAD ADMINISTRATION	41,800	12,913	24,958	-	648	-	571	1,103	1,511	96
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	21,500	819	5,934	-	1,794	-	1,047	-	11,906	-
OFFICE OF THE SECRETARY	21,500	8,529	8,788	-	3,342	798	443	-	-	-
US COAST GUARD	9,800	2,122	6,906	-	428	121	223	-	-	-
URBAN MASS TRANSPORTATION ADMIN	46,500	6,362	30,229	-	600	-	232	-	9,477	-

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TABLE C-67. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF THE TREASURY, TOTAL	2,261	2,036	225	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,308	1,166	142	-	-	-	-	-	-	-
CUSTOMS SERVICE	953	870	83	-	-	-	-	-	-	-
OTHER AGENCIES										
CIVIL SERVICE COMMISSION	2,922	1,422	-	-	-	-	-	-	1,500	-
COMMUNITY SERVICES ADMINISTRATION	10,236	1,000	-	-	-	-	9,236	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	2,107	1,749	165	-	91	-	102	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	1,752,379	52,139	703,812	584,450	28,786	336,701	25,558	16,881	3,342	710
ENVIRONMENTAL PROTECTION AGENCY	103,743	45,010	31,250	-	-	-	12,988	606	11,620	2,269
FEDERAL ENERGY ADMINISTRATION	1,949	728	1,065	-	-	-	-	156	-	-
GENERAL SERVICES ADMINISTRATION	733	75	636	-	-	-	22	-	-	-
LIBRARY OF CONGRESS	2,536	2,536	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,223,989	387,978	1,732,039	-	21,050	58,507	23,090	856	323	146
NATIONAL SCIENCE FOUNDATION	13,480	813	859	-	7,828	-	3,454	200	326	-
OFFICE OF TELECOMMUNICATIONS POLICY	2,685	2,685	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	2,247	2,247	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	46	30	16	-	-	-	-	-	-	-
US INFORMATION AGENCY	3	3	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	12,552	10,818	490	-	1,049	-	195	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-68. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	15,612,032	3,305,174	9,846,983	838,846	306,076	562,958	269,137	203,170	241,972	37,716
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	23,527	23,119	-	-	485	-	-	-	-	323
AGRICULTURAL RESEARCH SERVICE	16,559	15,781	-	-	455	-	-	-	-	323
FOREST SERVICE	7,038	7,038	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	330	300	-	-	30	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	72,734	33,121	17,811	-	7,378	68	5,730	270	8,356	-
BUREAU OF THE CENSUS	364	364	-	-	-	-	-	-	-	
ECONOMIC DEVELOPMENT ADMINISTRATION	12,500	250	375	-	2,500	-	3,750	-	5,625	-
MARITIME ADMINISTRATION	13,409	1,341	10,727	-	536	-	305	250	250	-
NATIONAL BUREAU OF STANDARDS	11,255	11,020	100	-	25	-	110	-	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	2,356	753	905	-	108	-	257	20	353	-
NATIONAL OCEANIC AND ATMOS ADMIN	30,359	18,140	5,624	-	4,209	68	190	-	2,128	-
OFFICE OF MINORITY BUSINESS ENTERP	1,597	399	80	-	-	-	1,118	-	-	-
OFFICE OF TELECOMMUNICATIONS	630	630	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	224	224	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	9,220,127	2,382,702	6,380,013	115,250	22,398	96,650	62,252	146,084	-	14,778
DEPARTMENT OF THE ARMY	2,120,321	649,807	1,435,891	150	10,524	12,388	4,411	4,012	-	3,138
DEPARTMENT OF THE NAVY	3,516,826	862,440	2,423,528	115,100	2,750	54,253	45,400	4,124	-	9,231
DEPARTMENT OF THE AIR FORCE	3,273,496	725,948	2,377,303	-	3,767	28,494	3,413	132,162	-	2,409
DEFENSE AGENCIES	271,880	109,658	142,568	-	5,357	1,515	9,028	3,754	-	-
DIRECTOR OF TEST & EVALUATION, DEF	37,604	34,849	723	-	-	-	-	2,032	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	529,418	33,068	85,760	-	169,749	115	89,718	726	143,887	6,395
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	2,856	25	2,831	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	3,978	1,433	71	-	1,400	-	894	-	90	90
HEALTH SERVICES ADMINISTRATION	7,945	1,494	-	-	4,909	-	1,542	-	-	-
NATIONAL INSTITUTE OF EDUCATION	60,789	10,942	3,930	-	15,805	-	20,744	-	9,168	200
NATIONAL INSTITUTES OF HEALTH	268,067	16,177	63,263	-	122,094	-	52,465	726	7,237	6,105
OFFICE OF EDUCATION	146,787	200	6,144	-	14,921	115	3,470	-	121,927	-
OFFICE OF HUMAN DEVELOPMENT	28,496	1,647	4,521	-	8,260	-	10,603	-	3,465	-
SOCIAL SECURITY ADMINISTRATION	10,500	1,150	5,000	-	2,350	-	-	-	2,000	-
DEPT OF HOUSING & URBAN DEVELOPMENT	28,604	4,196	9,175	-	-	-	7,161	-	8,072	-
DEPARTMENT OF THE INTERIOR, TOTAL	83,413	41,592	37,167	-	3,654	700	-	200	100	-
BONNEVILLE POWER ADMINISTRATION	5,545	2,679	2,742	-	124	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	121	121	-	-	-	-	-	-	-	-
BUREAU OF MINES	65,378	33,878	27,000	-	3,500	700	-	200	100	-
BUREAU OF RECLAMATION	376	346	-	-	30	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	7,773	348	7,425	-	-	-	-	-	-	-
US FISH AND WILDLIFE SERVICE	4,220	4,220	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	18,765	3,750	5,043	-	187	-	5,785	2,500	1,500	-
BUREAU OF PRISONS	1,014	600	42	-	187	-	185	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	6,000	1,000	3,500	-	-	-	500	1,000	-	-
FEDERAL BUREAU OF INVESTIGATION	1,400	200	1,200	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	351	50	301	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	10,000	1,900	-	-	-	-	5,100	1,500	1,500	-
DEPARTMENT OF LABOR, TOTAL	12,923	1,847	2,240	-	2,738	-	4,557	-	1,541	-
BUREAU OF LABOR STATISTICS	476	476	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	12,447	1,371	2,240	-	2,738	-	4,557	-	1,541	-
DEPARTMENT OF STATE, TOTAL	13,855	1,295	980	-	3,348	25	5,838	-	-	2,409
DEPARTMENTAL FUNDS	225	20	180	-	-	25	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	13,670	1,275	800	-	3,348	-	5,838	-	-	2,409
DEPT OF TRANSPORTATION, TOTAL	361,400	63,960	198,221	-	20,706	3,000	5,625	12,747	57,041	100
FEDERAL AVIATION ADMINISTRATION	112,400	25,215	72,891	-	974	1,690	-	11,630	-	-
FEDERAL HIGHWAY ADMINISTRATION	52,400	551	11,487	-	11,033		-	-	29,329	-
FEDERAL RAILROAD ADMINISTRATION	52,500	13,080	35,273	-	1,222	-	578	1,117	1,530	100
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	37,900	1,730	17,939	-	1,800	-	3,729	-	12,702	-
OFFICE OF THE SECRETARY	28,100	11,458	11,806	-	3,169	1,072	595	-	-	-
US COAST GUARD	19,000	4,186	13,625	-	508	238	443	-	-	-
URBAN MASS TRANSPORTATION ADMIN	58,700	7,740	35,200	-	2,000	-	280	-	13,480	-

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TABLE C-68. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF THE TREASURY, TOTAL......	3,369	2,203	241	-	60	-	-	865	-	-
BUREAU OF ALCOHOL TOBACCO & FIREARMS.	865	15	-	-	-	-	-	850	-	-
BUREAU OF ENGRAVING AND PRINTING.....	1,339	1,339	-	-	-	-	-	-	-	-
CUSTOMS SERVICE......................	1,165	849	241	-	60	-	-	15	-	-
OTHER AGENCIES										
ACTION..................................	234	18	-	-	-	-	216	-	-	-
CIVIL SERVICE COMMISSION...............	2,832	1,332	-	-	-	-	-	-	1,500	-
COMMUNITY SERVICES ADMINISTRATION......	17,600	1,000	-	-	-	-	16,600	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION.....	3,922	1,698	1,224	-	-	-	1,000	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN....	2,730,145	225,015	1,258,550	723,596	46,014	404,336	21,804	37,686	3,376	9,768
ENVIRONMENTAL PROTECTION AGENCY........	146,840	57,837	52,000	-	-	-	16,080	1,000	16,000	3,923
FEDERAL ENERGY ADMINISTRATION..........	6,075	772	4,794	-	225	165	-	119	-	-
GENERAL SERVICES ADMINISTRATION........	1,269	43	1,189	-	-	-	40	-	-	-
LIBRARY OF CONGRESS....................	2,696	2,593	103	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN.....	2,299,556	404,771	1,790,790	-	21,000	57,899	23,957	798	321	20
NATIONAL SCIENCE FOUNDATION............	11,669	824	827	-	6,791	-	2,774	175	278	-
OFFICE OF TELECOMMUNICATIONS POLICY....	1,236	1,236	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY.............	4,191	4,191	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY...	195	127	68	-	-	-	-	-	-	-
US INFORMATION AGENCY..................	7	7	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION................	14,990	12,860	787	-	1,343	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-69. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	16,826,188	3,249,778	11,115,867	892,826	340,677	557,130	249,621	166,282	228,323	25,684
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	25,926	22,390	-	-	3,205	-	-	-	-	331
AGRICULTURAL RESEARCH SERVICE	18,543	15,037	-	-	3,175	-	-	-	-	331
FOREST SERVICE	7,053	7,053	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	330	300	-	-	30	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	64,589	32,509	16,740	-	8,813	60	2,521	615	3,331	-
BUREAU OF THE CENSUS	374	374	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,500	50	150	-	500	-	750	-	1,050	-
MARITIME ADMINISTRATION	12,286	1,229	9,829	-	491	-	287	225	225	-
NATIONAL BUREAU OF STANDARDS	9,611	9,376	100	-	25	-	110	-	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	2,000	772	538	-	50	-	250	390	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	35,651	19,526	6,057	-	7,747	60	205	-	2,056	-
OFFICE OF MINORITY BUSINESS ENTERP	1,313	328	66	-	-	-	919	-	-	-
OFFICE OF TELECOMMUNICATIONS	630	630	-	-	-	-	-	-	-	-
PATENT & TRADEMARK OFFICE	224	224	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	9,929,633	2,422,419	7,116,811	90,000	61,562	57,081	65,708	104,246	-	11,806
DEPARTMENT OF THE ARMY	2,191,452	690,269	1,467,144	-	8,520	17,613	4,572	2,240	-	1,134
DEPARTMENT OF THE NAVY	3,871,400	860,236	2,806,473	90,000	43,844	8,632	47,988	4,105	-	10,122
DEPARTMENT OF THE AIR FORCE	3,536,340	731,526	2,675,566	-	3,559	30,481	3,511	91,147	-	550
DEFENSE AGENCIES	305,301	118,734	166,328	-	5,639	355	9,637	4,608	-	-
DIRECTOR OF TEST & EVALUATION, DEF	25,100	21,654	1,300	-	-	-	-	2,146	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	521,049	35,635	87,062	-	163,147	115	95,644	968	131,368	7,110
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	3,356	25	3,331	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	5,424	1,306	18	-	1,440	-	1,069	-	88	1,503
HEALTH SERVICES ADMINISTRATION	4,020	1,493	-	-	2,358	-	169	-	-	-
NATIONAL INSTITUTE OF EDUCATION	68,150	12,267	4,089	-	17,719	-	25,090	-	8,785	200
NATIONAL INSTITUTES OF HEALTH	275,437	17,142	64,176	-	125,048	-	54,929	968	7,767	5,407
OFFICE OF EDUCATION	125,668	400	6,144	-	6,135	115	3,796	-	109,078	-
OFFICE OF HUMAN DEVELOPMENT	28,394	1,752	4,446	-	8,155	-	10,591	-	3,450	-
SOCIAL SECURITY ADMINISTRATION	10,600	1,250	4,858	-	2,292	-	-	-	2,200	-
DEPT OF HOUSING & URBAN DEVELOPMENT	35,261	3,941	15,765	-	-	-	7,657	-	7,998	-
DEPARTMENT OF THE INTERIOR, TOTAL	72,384	36,997	30,702	-	3,685	700	-	200	100	-
BONNEVILLE POWER ADMINISTRATION	2,920	1,373	1,392	-	155	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	127	127	-	-	-	-	-	-	-	-
BUREAU OF MINES	59,572	30,072	25,000	-	3,500	700	-	200	100	-
BUREAU OF RECLAMATION	360	330	-	-	30	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	4,625	315	4,310	-	-	-	-	-	-	-
US FISH AND WILDLIFE SERVICE	4,780	4,780	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	12,174	3,859	3,322	-	490	-	2,253	2,250	-	-
BUREAU OF PRISONS	1,024	600	100	-	190	-	134	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	2,700	450	1,500	-	-	-	-	750	-	-
FEDERAL BUREAU OF INVESTIGATION	1,825	278	1,547	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SERVICE	225	50	175	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	6,400	2,481	-	-	300	-	2,119	1,500	-	-
DEPARTMENT OF LABOR, TOTAL	11,948	1,858	2,068	-	2,528	-	4,094	-	1,400	-
BUREAU OF LABOR STATISTICS	456	456	-	-	-	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	11,492	1,402	2,068	-	2,528	-	4,094	-	1,400	-
DEPARTMENT OF STATE, TOTAL	19,734	2,128	2,421	-	6,203	60	6,325	-	-	2,597
DEPARTMENTAL FUNDS	500	30	410	-	-	60	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	19,234	2,098	2,011	-	6,203	-	6,325	-	-	2,597
DEPT OF TRANSPORTATION, TOTAL	361,900	62,744	196,277	-	21,425	2,988	5,405	13,054	59,932	75
FEDERAL AVIATION ADMINISTRATION	117,500	26,400	76,310	-	836	1,770	-	12,184	-	-
FEDERAL HIGHWAY ADMINISTRATION	52,400	551	11,487	-	10,433	-	-	-	29,929	-
FEDERAL RAILROAD ADMINISTRATION	37,300	10,190	23,300	-	1,222	-	450	870	1,193	75
MATERIALS TRANSPORTATION BUREAU	900	200	700	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	37,600	1,685	17,490	-	2,400	-	3,635	-	12,390	-
OFFICE OF THE SECRETARY	26,500	10,387	10,703	-	3,898	972	540	-	-	-
US COAST GUARD	19,700	4,316	14,047	-	636	246	455	-	-	-
URBAN MASS TRANSPORTATION ADMIN	70,000	9,015	42,240	-	2,000	-	325	-	16,420	-

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TABLE C-69. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF THE TREASURY, TOTAL	4,744	2,294	300	-	100	-	-	2,050	-	-
BUREAU OF ALCOHOL TOBACCO & FIREARMS	1,824	24	-	-	-	-	-	1,800	-	-
BUREAU OF ENGRAVING AND PRINTING	1,370	1,370	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	1,550	900	300	-	100	-	-	250	-	-
OTHER AGENCIES										
CIVIL SERVICE COMMISSION	2,832	1,332	-	-	-	-	-	-	1,500	-
COMMUNITY SERVICES ADMINISTRATION	9,250	1,000	1,000	-	-	-	7,250	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,129	1,277	852	-	-	-	1,000	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	3,170,335	132,580	1,672,174	802,826	46,318	443,619	23,255	41,093	8,130	300
ENVIRONMENTAL PROTECTION AGENCY	126,500	56,555	40,000	-	-	-	11,500	1,000	14,000	3,445
GENERAL SERVICES ADMINISTRATION	1,927	50	1,797	-	-	-	80	-	-	-
INTERSTATE COMMERCE COMMISSION	262	262	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	3,001	2,718	283	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,421,156	408,193	1,927,464	-	17,000	52,507	14,970	750	252	20
NATIONAL SCIENCE FOUNDATION	8,259	459	668	-	4,845	-	1,919	56	312	-
OFFICE OF TELECOMMUNICATIONS POLICY	1,255	1,255	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	3,631	3,631	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	200	130	70	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,009	13,562	91	-	1,356	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-70. FEDERAL FUNDS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	ACTUAL,	ESTIMATES		ACTUAL,	ESTIMATES	
	1976	1977	1978	1976	1977	1978
TOTAL, ALL AGENCIES	836.7	1,603.5	1,566.5	795.1	965.7	1,226.9
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	16.1	22.7	14.6	8.8	35.3	22.7
AGRICULTURAL RESEARCH SERVICE	13.2	20.9	14.3	5.5	31.7	21.7
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	.1	-
FOREST SERVICE	2.9	1.8	.3	3.4	3.5	1.0
DEPARTMENT OF COMMERCE, TOTAL	6.6	7.4	5.7	7.8	5.9	4.3
MARITIME ADMINISTRATION	2.2	5.1	4.1	1.6	3.8	3.1
NATIONAL BUREAU OF STANDARDS	.5	.8	1.6	1.1	.7	1.2
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	4.3	1.5	-	5.1	1.4	-
DEPARTMENT OF DEFENSE, TOTAL	143.4	468.1	348.6	138.7	162.2	308.3
DEPARTMENT OF THE ARMY	12.3	30.9	60.9	20.6	21.8	8.3
DEPARTMENT OF THE NAVY	45.8	58.3	85.6	59.3	53.4	63.4
DEPARTMENT OF THE AIR FORCE	73.0	366.8	181.8	57.1	86.6	235.0
DEFENSE AGENCIES	12.3	12.1	20.3	1.7	.4	1.6
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	33.1	143.3	83.3	52.4	66.3	70.2
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	-	-	.4	-	-	-
FOOD AND DRUG ADMINISTRATION	.9	1.9	-	.5	1.1	1.2
NATIONAL INSTITUTES OF HEALTH	32.2	141.4	82.9	51.9	65.2	69.0
DEPARTMENT OF THE INTERIOR, TOTAL	5.9	9.3	.1	.8	8.2	1.8
BONNEVILLE POWER ADMINISTRATION	.1	*	.1	.1	*	.1
BUREAU OF MINES	-	8.6	-	-	7.5	1.1
NATIONAL PARK SERVICE	*	*	*	*	*	*
UNITED STATES FISH AND WILDLIFE SERVICE	5.8	.6	-	.7	.6	.6
DEPARTMENT OF STATE, TOTAL	5.1	5.2	21.7	1.2	2.0	3.5
AGENCY FOR INTERNATIONAL DEVELOPMENT	5.1	5.2	21.7	1.2	2.0	3.5
DEPARTMENT OF TRANSPORTATION, TOTAL	14.2	24.9	21.6	12.1	20.2	18.7
FEDERAL AVIATION ADMINISTRATION	2.0	3.0	6.0	1.9	2.9	5.7
FEDERAL HIGHWAY ADMINISTRATION	.4	.4	.4	.4	.4	.4
FEDERAL RAILROAD ADMINISTRATION	10.1	19.2	12.8	8.0	14.7	10.2
UNITED STATES COAST GUARD	.4	.6	.7	.5	.5	.7
URBAN MASS TRANSPORTATION ADMINISTRATION	1.3	1.7	1.7	1.3	1.7	1.7
DEPARTMENT OF THE TREASURY, TOTAL	.1	.1	.1	.1	.1	.1
CUSTOMS SERVICE	.1	.1	.1	.1	.1	.1
OTHER AGENCIES						
CONSUMER PRODUCT SAFETY COMMISSION	.2	.4	.6	.2	.4	.6
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	438.8	734.4	845.6	364.2	470.0	598.9
ENVIRONMENTAL PROTECTION AGENCY	6.3	5.0	1.1	6.7	5.1	4.5
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	82.1	118.1	161.8	120.9	125.1	132.5
NATIONAL SCIENCE FOUNDATION	52.6	36.4	45.5	50.1	35.4	44.6
NUCLEAR REGULATORY COMMISSION	9.6	8.1	9.3	3.5	9.0	9.4
SMITHSONIAN INSTITUTION	.5	.5	.5	.1	.5	.5
TENNESSEE VALLEY AUTHORITY	10.2	12.6	.4	15.7	13.1	.4
VETERANS ADMINISTRATION	11.8	6.9	5.9	11.8	6.9	5.9

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-71. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	836,724	316,783	73,690	205,546	35,178	189,553	10,914	4,660	-	-
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	16,142	16,142	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	13,197	13,197	-	-	-	-	-	-	-	-
FOREST SERVICE	2,945	2,945	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	6,631	4,450	2,075	-	46	-	-	60	-	-
MARITIME ADMINISTRATION	2,158	-	2,052	-	46	-	-	60	-	-
NATIONAL BUREAU OF STANDARDS	496	496	-	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	3,977	3,954	23	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	143,423	134,169	5,907	-	1,621	150	1,501	75	-	-
DEPARTMENT OF THE ARMY	12,323	11,973	350	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	45,800	45,800	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	73,000	73,000	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	12,300	3,396	5,557	-	1,621	150	1,501	75	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	33,102	13,102	-	-	11,393	-	8,607	-	-	-
FOOD AND DRUG ADMINISTRATION	877	877	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	32,225	12,225	-	-	11,393	-	8,607	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	5,914	5,893	-	-	21	-	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	56	56	-	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	28	7	-	-	21	-	-	-	-	-
US FISH AND WILDLIFE SERVICE	5,830	5,830	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	5,125	-	5,125	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	5,125	-	5,125	-	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	14,200	5,985	8,215	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	2,000	1,100	900	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	400	400	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	10,100	2,785	7,315	-	-	-	-	-	-	-
US COAST GUARD	400	400	-	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,300	1,300	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	107	107	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	107	107	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	189	189	-	-	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	438,821	11,676	52,368	197,794	11,264	160,462	806	4,451	-	-
ENVIRONMENTAL PROTECTION AGENCY	6,256	6,256	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	82,130	78,330	-	-	-	3,800	-	-	-	-
NATIONAL SCIENCE FOUNDATION	52,577	18,000	-	-	10,833	23,744	-	-	-	-
NUCLEAR REGULATORY COMMISSION	5,623	-	-	8,152	-	1,397	-	74	-	-
SMITHSONIAN INSTITUTION	485	485	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	10,174	10,174	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	11,825	11,825	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-72. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRAMURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	1,603,471	777,324	215,937	220,787	49,698	324,081	8,924	6,390	330	-
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	22,677	22,677	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	20,885	20,885	-	-	-	-	-	-	-	-
FOREST SERVICE	1,792	1,792	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	7,425	2,756	4,669	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	5,100	472	4,628	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	817	817	-	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	1,508	1,467	41	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	468,100	457,289	7,830	-	2,067	340	564	10	-	-
DEPARTMENT OF THE ARMY	30,900	30,480	420	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	58,300	58,300	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	366,800	366,800	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	12,100	1,709	7,410	-	2,067	340	564	10	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	143,337	126,466	-	-	10,871	-	6,000	-	-	-
FOOD AND DRUG ADMINISTRATION	1,917	1,917	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	141,420	124,549	-	-	10,871	-	6,000	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	9,295	9,275	-	-	-	-	-	-	20	-
BONNEVILLE POWER ADMINISTRATION	30	30	-	-	-	-	-	-	-	-
BUREAU OF MINES	8,628	8,628	-	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	2	2	-	-	-	-	-	-	-	-
US FISH AND WILDLIFE SERVICE	635	615	-	-	-	-	-	-	20	-
DEPARTMENT OF STATE, TOTAL	5,194	-	5,194	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	5,194	-	5,194	-	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	24,900	11,000	13,900	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	3,000	3,000	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	400	400	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	19,200	5,300	13,900	-	-	-	-	-	-	-
US COAST GUARD	600	600	-	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,700	1,700	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	125	125	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	125	125	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	426	426	-	-	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	734,429	6,209	184,319	214,344	21,635	298,984	2,360	6,268	310	-
ENVIRONMENTAL PROTECTION AGENCY	5,047	5,047	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	118,090	116,090	-	-	-	2,000	-	-	-	-
NATIONAL SCIENCE FOUNDATION	36,370	-	-	-	15,125	21,245	-	-	-	-
NUCLEAR REGULATORY COMMISSION	8,092	-	25	6,443	-	1,512	-	112	-	-
SMITHSONIAN INSTITUTION	499	499	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	12,600	12,600	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	6,865	6,865	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-73. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRAMURAL	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	1,566,491	603,441	270,329	268,134	49,763	362,351	6,038	5,760	675	-
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	14,591	14,591	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	14,291	14,291	-	-	-	-	-	-	-	-
FOREST SERVICE	300	300	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	5,747	2,072	3,675	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	4,125	450	3,675	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	1,622	1,622	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	348,580	329,326	17,006	-	1,750	70	428	-	-	-
DEPARTMENT OF THE ARMY	60,880	59,808	1,072	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	85,600	85,600	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	181,800	181,800	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	20,300	2,118	15,934	-	1,750	70	428	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	83,298	73,403	-	-	6,895	-	3,000	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	350	350	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	82,948	73,053	-	-	6,895	-	3,000	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	55	55	-	-	-	-	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	53	53	-	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	2	2	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	21,653	-	21,653	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	21,653	-	21,653	-	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	21,600	12,330	9,270	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	6,000	6,000	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	400	400	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	12,800	3,530	9,270	-	-	-	-	-	-	-
US COAST GUARD	700	700	-	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,700	1,700	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	140	140	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	140	140	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	616	616	-	-	-	-	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	845,634	6,236	218,725	259,599	15,546	336,533	2,610	5,710	675	-
ENVIRONMENTAL PROTECTION AGENCY	1,142	1,142	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	161,800	156,700	-	-	-	5,100	-	-	-	-
NATIONAL SCIENCE FOUNDATION	45,505	-	-	-	25,572	19,933	-	-	-	-
NUCLEAR REGULATORY COMMISSION	9,300	-	-	8,535	-	715	-	50	-	-
SMITHSONIAN INSTITUTION	527	527	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	404	404	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	5,899	5,899	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-74. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1976	ESTIMATES	
		1977	1978
TOTAL, ALL FIELDS	2,171,966	2,417,978	2,585,132
LIFE SCIENCES, TOTAL	1,233,582	1,381,152	1,448,474
BIOLOGICAL	586,778	666,654	717,597
CLINICAL MEDICAL	415,205	459,438	470,193
OTHER MEDICAL SCIENCES	182,783	205,730	210,349
LIFE SCIENCES, NEC	48,816	49,330	50,335
PSYCHOLOGY, TOTAL	58,953	67,286	68,627
BIOLOGICAL ASPECTS	29,775	32,783	32,820
SOCIAL ASPECTS	27,603	31,635	32,580
PSYCHOLOGICAL SCIENCES, NEC	1,575	2,868	3,227
PHYSICAL SCIENCES, TOTAL	281,273	323,875	368,015
ASTRONOMY	29,187	32,537	33,302
CHEMISTRY	99,144	111,912	124,679
PHYSICS	147,222	173,717	202,017
PHYSICAL SCIENCES, NEC	5,720	5,709	8,017
ENVIRONMENTAL SCIENCES, TOTAL	170,657	188,031	211,019
ATMOSPHERIC SCIENCES	45,105	53,206	54,997
GEOLOGICAL SCIENCES	51,217	52,184	60,975
OCEANOGRAPHY	63,513	71,408	80,297
ENVIRONMENTAL SCIENCES, NEC	10,822	11,233	14,750
MATHEMATICS & COMPUTER SCIENCES, TOTAL	67,031	77,466	84,360
MATHEMATICS	40,634	46,399	49,394
COMPUTER SCIENCES	25,098	29,539	33,410
MATHEMATICS & COMPUTER SCIENCES, NEC	1,299	1,528	1,556
ENGINEERING, TOTAL	191,922	213,202	230,077
AERONAUTICAL	24,609	26,223	24,904
ASTRONAUTICAL	6,262	6,234	5,916
CHEMICAL	16,268	20,240	23,043
CIVIL	5,821	6,049	6,556
ELECTRICAL	37,422	43,516	46,666
MECHANICAL	13,740	16,397	16,438
METALLURGY & MATERIALS	46,046	53,218	57,211
ENGINEERING, NEC	41,754	41,325	49,343
SOCIAL SCIENCES, TOTAL	117,768	126,151	137,667
ANTHROPOLOGY	5,275	5,023	5,759
ECONOMICS	32,868	35,883	39,200
POLITICAL SCIENCE	2,127	2,337	2,490
SOCIOLOGY	16,959	17,986	18,115
SOCIAL SCIENCES, NEC	60,539	64,922	72,103
OTHER SCIENCES, NEC	50,780	40,815	36,893

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976, 1977, AND 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-75. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COMPUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	2,171,966	1,233,582	58,953	281,273	170,657	67,031	191,922	117,768	50,780
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	119,162	83,123	-	5,900	699	162	3,954	25,319	5
AGRICULTURAL RESEARCH SERVICE	3,657	3,002	-	453	-	21	176	5	-
COOPERATIVE STATE RESEARCH SERVICE	109,930	75,476	-	5,447	690	-	3,778	24,539	-
ECONOMIC RESEARCH SERVICE	710	-	-	-	-	-	-	710	-
FARMER COOPERATIVE SERVICE	1	-	-	-	-	-	-	1	-
FOREST SERVICE	4,718	4,645	-	-	9	-	-	64	-
NATIONAL AGRICULTURAL LIBRARY	5	-	-	-	-	-	-	-	5
STATISTICAL REPORTING SERVICE	141	-	-	-	-	141	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	211,620	16,665	9,415	28,057	34,009	19,790	80,520	1,051	22,113
DEPARTMENT OF THE ARMY	27,978	7,738	810	4,645	2,283	2,840	9,208	454	-
DEPARTMENT OF THE NAVY	55,128	5,460	2,277	11,121	25,608	4,212	6,450	-	-
DEPARTMENT OF THE AIR FORCE	78,099	3,467	3,137	8,248	4,639	4,327	54,281	-	-
DEFENSE AGENCIES	50,335	-	3,156	4,043	1,479	8,411	10,581	552	22,113
DEPARTMENTWIDE FUNDS	80	-	35	-	-		-	5	-
DEPT OF HEALTH, ED. & WELFARE, TOTAL	1,198,265	1,020,107	41,124	32,414	-	14,632	15,274	54,463	20,251
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	78,168	36,228	26,812	69	-	703	-	12,918	438
CENTER FOR DISEASE CONTROL	2,941	2,941	-	-	-		-	-	-
FOOD AND DRUG ADMINISTRATION	7,682	7,682	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	14,057	-	-	-	-	-	-	11,657	2,400
HEALTH SERVICES ADMINISTRATION	2,528	2,528	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	2,865	-	-	-	-	-	-	2,865	-
NATIONAL INSTITUTES OF HEALTH	1,057,501	963,055	10,079	32,345	-	13,929	15,274	5,406	17,413
OFFICE OF EDUCATION	9,916	-	-	-	-	-	-	9,916	-
OFFICE OF HUMAN DEVELOPMENT	16,953	7,673	4,233	-	-	-	-	5,047	-
OFFICE OF THE SECRETARY	3,066	-	-	-	-	-	-	3,066	-
SOCIAL AND REHABILITATION SERVICE	2,378	-	-	-	-	-	-	2,378	-
SOCIAL SECURITY ADMINISTRATION	210	-	-	-	-	-	-	210	-
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	116,323	23,213	-	61,874	16,705	447	13,237	641	206
NATIONAL AERONAUTICS & SPACE ADMIN	97,836	5,720	847	39,633	31,505	1,178	16,356	222	2,375
NATIONAL SCIENCE FOUNDATION	428,760	84,754	7,567	113,395	87,739	30,822	62,581	36,072	5,830

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 96 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-76. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	58,553	29,775	27,603	1,575	281,273	29,187	99,144	147,222	5,720
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	5,900	-	5,865	35	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	453	-	418	35	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	5,447	-	5,447	-	-
DEPARTMENT OF DEFENSE, TOTAL	9,415	1,606	6,948	861	28,057	297	7,016	19,115	1,629
DEPARTMENT OF THE ARMY	810	27	783	-	4,645	-	2,278	1,956	411
DEPARTMENT OF THE NAVY	2,277	-	2,277	-	11,121	-	1,588	9,533	-
DEPARTMENT OF THE AIR FORCE	3,137	-	3,137	-	8,248	297	3,121	4,830	-
DEFENSE AGENCIES	3,156	1,557	738	861	4,043	-	29	2,796	1,218
DEPARTMENTWIDE FUNDS	35	22	13	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	41,124	22,992	18,132	-	32,414	-	31,100	1,314	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	26,812	16,297	10,515	-	69	-	69	-	-
NATIONAL INSTITUTES OF HEALTH	10,079	6,695	3,384	-	32,345	-	31,031	1,314	-
OFFICE OF HUMAN DEVELOPMENT	4,233	-	4,233	-	-	-	-	-	-
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	61,874	-	13,439	48,435	-
NATIONAL AERONAUTICS & SPACE ADMIN	847	-	133	714	39,633	19,045	4,140	12,357	4,091
NATIONAL SCIENCE FOUNDATION	7,567	5,177	2,390	-	113,395	9,845	37,584	65,966	-

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 96 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-77. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,233,582	586,778	415,205	182,783	48,816	170,657	45,105	51,217	63,513	10,822
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	83,123	78,129	4,994	-	-	699	699	-	-	-
AGRICULTURAL RESEARCH SERVICE	3,002	3,002	-	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	75,476	70,482	4,994	-	-	690	690	-	-	-
FOREST SERVICE	4,645	4,645	-	-	-	9	9	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	16,665	4,418	7,640	4,607	-	34,009	5,834	3,584	24,181	410
DEPARTMENT OF THE ARMY	7,738	798	5,800	1,140	-	2,283	640	1,478	165	-
DEPARTMENT OF THE NAVY	5,460	3,620	1,840	-	-	25,608	491	1,013	23,694	410
DEPARTMENT OF THE AIR FORCE	3,467	-	-	3,467	-	4,639	4,457	182	-	-
DEFENSE AGENCIES	-	-	-	-	-	1,479	246	911	322	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	1,020,107	396,119	400,954	176,959	46,075	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	36,228	26,691	2,910	1,900	4,727	-	-	-	-	-
CENTER FOR DISEASE CONTROL	2,941	-	-	2,941	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	7,682	5,353	-	2,329	-	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	2,528	-	2,528	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	963,055	364,075	387,843	169,789	41,348	-	-	-	-	-
OFFICE OF HUMAN DEVELOPMENT	7,673	-	7,673	-	-	-	-	-	-	-
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	23,213	20,985	470	221	1,537	16,705	3,537	6,006	4,191	2,971
NATIONAL AERONAUTICS & SPACE ADMIN	5,720	2,492	1,147	996	1,085	31,505	14,034	9,729	332	7,410
NATIONAL SCIENCE FOUNDATION	84,754	84,635	-	-	119	87,739	21,001	31,898	34,809	31

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 96 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-78. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	191,922	24,609	6,262	16,268	5,821	37,422	13,740	46,046	41,754
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	3,954	-	-	-	5	17	-	-	3,932
AGRICULTURAL RESEARCH SERVICE	176	-	-	-	5	17	-	-	154
COOPERATIVE STATE RESEARCH SERVICE	3,778	-	-	-	-	-	-	-	3,778
DEPARTMENT OF DEFENSE, TOTAL	80,520	17,441	5,637	2,494	1,614	21,001	5,119	19,413	7,801
DEPARTMENT OF THE ARMY	9,208	731	-	125	885	4,295	1,236	1,462	474
DEPARTMENT OF THE NAVY	6,450	803	-	1,654	-	315	2,200	1,478	-
DEPARTMENT OF THE AIR FORCE	54,281	15,907	5,637	715	592	12,051	1,643	11,870	5,866
DEFENSE AGENCIES	10,581	-	-	-	137	4,340	40	4,603	1,461
DEPT OF HEALTH, ED, & WELFARE, TOTAL	15,274	-	-	-	-	-	-	-	15,274
NATIONAL INSTITUTES OF HEALTH	15,274	-	-	-	-	-	-	-	15,274
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	13,237	-	-	2,690	-	-	419	9,734	394
NATIONAL AERONAUTICS & SPACE ADMIN	16,356	7,168	625	575	157	2,700	1,249	2,013	1,869
NATIONAL SCIENCE FOUNDATION	62,581	-	-	10,509	4,045	13,704	6,953	14,886	12,484

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 96 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-79. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	67,031	40,634	25,098	1,299	117,768	5,275	32,868	2,127	16,959	60,539
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	162	162	-	-	25,319	-	23,977	-	1,326	16
AGRICULTURAL RESEARCH SERVICE	21	21	-	-	5	-	5	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	24,539	-	23,240	-	1,299	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	710	-	667	-	27	16
FARMER COOPERATIVE SERVICE	-	-	-	-	1	-	1	-	-	-
FOREST SERVICE	-	-	-	-	64	-	64	-	-	-
STATISTICAL REPORTING SERVICE	141	141	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	19,790	8,636	11,154	-	1,051	-	141	359	84	467
DEPARTMENT OF THE ARMY	2,840	2,276	564	-	454	-	124	7	56	267
DEPARTMENT OF THE NAVY	4,212	2,639	1,573	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	4,327	3,611	716	-	-	-	-	-	-	-
DEFENSE AGENCIES	8,411	110	8,301	-	552	-	-	352	-	200
DEPARTMENTWIDE FUNDS	-	-	-	-	45	-	17	-	28	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	14,632	14,632	-	-	54,463	2,274	2,669	-	13,429	36,091
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	703	703	-	-	13,918	2,274	176	-	9,791	1,677
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	11,657	-	347	-	340	10,970
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	2,865	-	-	-	-	2,865
NATIONAL INSTITUTES OF HEALTH	13,929	13,929	-	-	5,406	-	-	-	-	5,406
OFFICE OF EDUCATION	-	-	-	-	9,916	-	-	-	-	9,916
OFFICE OF HUMAN DEVELOPMENT	-	-	-	-	5,047	-	-	-	-	5,047
OFFICE OF THE SECRETARY	-	-	-	-	3,066	-	2,146	-	920	-
SOCIAL AND REHABILITATION SERVICE	-	-	-	-	2,378		-	-	2,378	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	210	-	-	-	-	210
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	447	290	157	-	641	-	641	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,178	-	-	1,178	222	-	87	95	-	40
NATIONAL SCIENCE FOUNDATION	30,822	16,914	13,787	121	36,072	3,001	5,353	1,673	2,120	23,925

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 96 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-80. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1976	ESTIMATES	
		1977	1978
TOTAL, ALL FIELDS	1,112,856	1,255,495	1,365,752
LIFE SCIENCES, TOTAL	507,954	580,481	615,301
BIOLOGICAL	402,459	461,810	493,301
CLINICAL MEDICAL	7,324	8,860	9,619
OTHER MEDICAL SCIENCES	79,505	91,108	93,336
LIFE SCIENCES, NEC	18,666	18,703	19,045
PSYCHOLOGY, TOTAL	29,575	33,395	35,132
BIOLOGICAL ASPECTS	17,403	19,479	19,846
SOCIAL ASPECTS	11,457	12,482	13,659
PSYCHOLOGICAL SCIENCES, NEC	715	1,434	1,627
PHYSICAL SCIENCES, TOTAL	243,113	272,372	303,912
ASTRONOMY	26,218	29,445	30,198
CHEMISTRY	88,103	98,600	109,813
PHYSICS	125,217	141,327	159,001
PHYSICAL SCIENCES, NEC	3,575	3,000	4,900
ENVIRONMENTAL SCIENCES, TOTAL	127,625	145,197	161,738
ATMOSPHERIC SCIENCES	29,372	35,923	39,765
GEOLOGICAL SCIENCES	40,365	41,806	47,900
OCEANOGRAPHY	54,318	62,573	68,054
ENVIRONMENTAL SCIENCES, NEC	3,570	4,895	6,019
MATHEMATICS & COMPUTER SCIENCES, TOTAL	46,076	51,084	55,450
MATHEMATICS	27,127	30,967	33,293
COMPUTER SCIENCES	18,671	19,845	21,885
MATHEMATICS & COMPUTER SCIENCES, NEC	278	272	272
ENGINEERING, TOTAL	109,823	121,082	133,874
AERONAUTICAL	10,042	9,672	9,555
ASTRONAUTICAL	2,377	1,972	1,875
CHEMICAL	10,203	12,205	13,777
CIVIL	3,665	4,238	4,609
ELECTRICAL	24,690	27,693	31,293
MECHANICAL	9,576	12,012	12,670
METALLURGY & MATERIALS	34,933	40,074	43,537
ENGINEERING, NEC	13,937	13,216	16,558
SOCIAL SCIENCES, TOTAL	44,420	48,113	55,705
ANTHROPOLOGY	3,217	3,625	4,362
ECONOMICS	15,755	16,923	17,977
POLITICAL SCIENCE	1,658	1,737	2,043
SOCIOLOGY	6,472	6,746	6,997
SOCIAL SCIENCES, NEC	17,318	19,082	24,326
OTHER SCIENCES, NEC	4,270	3,771	4,640

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 98 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976, 1977, AND 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-81. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	1,112,856	507,954	29,575	243,113	127,625	46,076	109,823	44,420	4,270
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	47,004	33,467	-	2,277	262	49	1,517	9,432	-
AGRICULTURAL RESEARCH SERVICE	1,674	1,375	-	207	-	10	81	1	-
COOPERATIVE STATE RESEARCH SERVICE	41,774	28,681	-	2,070	262	-	1,436	9,325	-
ECONOMIC RESEARCH SERVICE	106	-	-	-	-	-	-	106	-
FOREST SERVICE	3,411	3,411	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	39	-	-	-	-	39	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	102,573	9,542	5,147	19,846	23,409	13,311	32,262	56	-
DEPARTMENT OF THE ARMY	16,588	2,682	747	3,385	1,105	2,349	6,264	56	-
DEPARTMENT OF THE NAVY	45,192	5,356	2,095	8,684	21,214	3,544	4,299	-	-
DEPARTMENT OF THE AIR FORCE	28,172	1,504	592	7,111	1,000	2,954	14,011	-	-
DEFENSE AGENCIES	13,621	-	1,713	666	90	3,464	7,688	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	434,929	372,824	16,107	27,702	-	2,107	4,397	9,402	2,390
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	29,266	15,858	8,952	24	-	246	-	4,033	153
HEALTH RESOURCES ADMINISTRATION	1,295	-	-	-	-	-	-	1,295	-
NATIONAL INSTITUTE OF EDUCATION	1,348	-	-	-	-	-	-	1,348	-
NATIONAL INSTITUTES OF HEALTH	400,558	356,966	7,155	27,678	-	1,861	4,397	264	2,237
OFFICE OF THE SECRETARY	2,462	-	-	-	-	-	-	2,462	-
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	68,270	7,856	-	50,590	216	447	9,161	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	67,157	3,415	754	32,141	20,915	272	8,493	39	1,128
NATIONAL SCIENCE FOUNDATION	391,923	80,850	7,567	110,557	82,823	29,890	53,993	25,491	752

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 98 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-82. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	29,575	17,403	11,457	715	243,113	26,218	88,103	125,217	3,575
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	2,277		2,262	15	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	207	-	192	15	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	2,070	-	2,070	-	-
DEPARTMENT OF DEFENSE, TOTAL	5,147	1,529	3,524	94	19,846	297	5,996	13,004	549
DEPARTMENT OF THE ARMY	747	-	747	-	3,385	-	1,715	1,670	-
DEPARTMENT OF THE NAVY	2,095	-	2,095	-	8,684	-	1,588	7,096	-
DEPARTMENT OF THE AIR FORCE	592	-	592	-	7,111	297	2,693	4,121	-
DEFENSE AGENCIES	1,713	1,529	90	94	666	-	-	117	549
DEPT OF HEALTH, ED, & WELFARE, TOTAL	16,107	10,697	5,410	-	27,702	-	27,508	194	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	8,952	5,774	3,178	-	24	-	24	-	-
NATIONAL INSTITUTES OF HEALTH	7,155	4,923	2,232	-	27,678	-	27,484	194	-
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	50,590	-	12,589	38,001	-
NATIONAL AERONAUTICS & SPACE ADMIN	754	-	133	621	32,141	16,076	3,621	9,418	3,026
NATIONAL SCIENCE FOUNDATION	7,567	5,177	2,390	-	110,557	9,845	36,127	64,585	-

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 98 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-83. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	507,554	402,459	7,324	79,505	18,666	127,625	29,372	40,365	54,318	3,570
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	33,467	31,569	1,898	-	-	262	262	-	-	-
AGRICULTURAL RESEARCH SERVICE	1,375	1,375	-	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	28,681	26,783	1,898	-	-	262	262	-	-	-
FOREST SERVICE	3,411	3,411	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	9,542	4,072	3,934	1,536	-	23,409	1,831	1,613	19,555	410
DEPARTMENT OF THE ARMY	2,682	522	2,128	32	-	1,105	522	418	165	-
DEPARTMENT OF THE NAVY	5,356	3,550	1,806	-	-	21,214	491	1,013	19,300	410
DEPARTMENT OF THE AIR FORCE	1,504	-	-	1,504	-	1,000	818	182	-	-
DEFENSE AGENCIES	-	-	-	-	-	90	-	-	90	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	372,624	276,110	1,220	77,289	18,205	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	15,858	12,090	1,220	882	1,666	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	356,966	264,020	-	76,407	16,539	-	-	-	-	-
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	7,856	7,856	-	-	-	216	-	216	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	3,415	2,111	272	680	352	20,915	9,449	8,143	184	3,139
NATIONAL SCIENCE FOUNDATION	80,850	80,741	-	-	109	82,823	17,830	30,393	34,579	21

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 98 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-84. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	109,823	10,042	2,377	10,203	3,665	24,690	9,976	34,933	13,937
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	1,517	-	-	-	3	8	-	-	1,506
AGRICULTURAL RESEARCH SERVICE	81	-	-	-	3	8	-	-	70
COOPERATIVE STATE RESEARCH SERVICE	1,436	-	-	-	-	-	-	-	1,436
DEPARTMENT OF DEFENSE, TOTAL	32,262	5,480	2,188	-	18	10,745	3,114	10,717	-
DEPARTMENT OF THE ARMY	6,264	587	-	-	18	3,544	914	1,201	-
DEPARTMENT OF THE NAVY	4,299	748	-	-	-	-	2,200	1,351	-
DEPARTMENT OF THE AIR FORCE	14,011	4,145	2,188	-	-	3,380	-	4,298	-
DEFENSE AGENCIES	7,688	-	-	-	-	3,821	-	3,867	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	4,397	-	-	-	-	-	-	-	4,397
NATIONAL INSTITUTES OF HEALTH	4,397	-	-	-	-	-	-	-	4,397
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	9,161	-	-	-	-	-	-	9,161	-
NATIONAL AERONAUTICS & SPACE ADMIN	8,493	4,562	189	172	96	711	401	1,349	1,013
NATIONAL SCIENCE FOUNDATION	53,593	-	-	10,031	3,548	13,226	6,461	13,706	7,021

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 98 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-85. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	46,076	27,127	18,671	278	44,420	3,217	15,755	1,658	6,472	17,318
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	49	49	-	-	9,432	-	8,926	-	503	3
AGRICULTURAL RESEARCH SERVICE	10	10	-	-	1	-	1	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	9,325	-	8,831	-	494	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	106	-	94	-	9	3
STATISTICAL REPORTING SERVICE	39	39	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,311	7,853	5,458	-	56	-	-	-	56	-
DEPARTMENT OF THE ARMY	2,349	2,205	144	-	56	-	-	-	56	-
DEPARTMENT OF THE NAVY	3,544	2,239	1,305	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	3,954	3,409	545	-	-	-	-	-	-	-
DEFENSE AGENCIES	3,464	-	3,464	-	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	2,107	2,107	-	-	9,402	246	1,838	-	3,953	3,365
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	246	246	-	-	4,033	246	76	-	3,176	535
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	1,295	-	39	-	38	1,218
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	1,348	-	-	-	-	1,348
NATIONAL INSTITUTES OF HEALTH	1,861	1,861	-	-	264	-	-	-	-	264
OFFICE OF THE SECRETARY	-	-	-	-	2,462	-	1,723	-	739	-
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	447	290	157	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	272	-	-	272	39	-	1	38	-	-
NATIONAL SCIENCE FOUNDATION	29,850	16,828	13,056	6	25,491	2,971	4,990	1,620	1,960	13,950

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 98 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-86. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1976	ESTIMATES	
		1977	1978
TOTAL, ALL FIELDS	1,059,110	1,162,483	1,219,380
LIFE SCIENCES, TOTAL	725,628	800,671	833,173
BIOLOGICAL	184,319	204,844	224,296
CLINICAL MEDICAL	407,881	450,578	460,574
OTHER MEDICAL SCIENCES	103,278	114,622	117,013
LIFE SCIENCES, NEC	30,150	30,627	31,290
PSYCHOLOGY, TOTAL	29,378	33,891	33,495
BIOLOGICAL ASPECTS	12,372	13,304	12,974
SOCIAL ASPECTS	16,146	19,153	18,921
PSYCHOLOGICAL SCIENCES, NEC	860	1,434	1,600
PHYSICAL SCIENCES, TOTAL	38,160	51,503	64,103
ASTRONOMY	2,969	3,092	3,104
CHEMISTRY	11,041	13,312	14,866
PHYSICS	22,005	32,390	43,016
PHYSICAL SCIENCES, NEC	2,145	2,709	3,117
ENVIRONMENTAL SCIENCES, TOTAL	43,032	42,834	49,281
ATMOSPHERIC SCIENCES	15,733	17,283	15,232
GEOLOGICAL SCIENCES	10,852	10,378	13,075
OCEANOGRAPHY	9,195	8,835	12,243
ENVIRONMENTAL SCIENCES, NEC	7,252	6,338	8,731
MATHEMATICS & COMPUTER SCIENCES, TOTAL	20,955	26,382	28,910
MATHEMATICS	13,507	15,432	16,101
COMPUTER SCIENCES	6,427	9,694	11,525
MATHEMATICS & COMPUTER SCIENCES, NEC	1,021	1,256	1,284
ENGINEERING, TOTAL	82,099	92,120	96,203
AERONAUTICAL	14,567	16,551	15,349
ASTRONAUTICAL	3,885	4,262	4,041
CHEMICAL	6,065	8,035	9,266
CIVIL	2,156	1,811	1,947
ELECTRICAL	12,732	15,823	15,373
MECHANICAL	3,764	4,385	3,768
METALLURGY & MATERIALS	11,113	13,144	13,674
ENGINEERING, NEC	27,817	28,109	32,785
SOCIAL SCIENCES, TOTAL	73,348	78,038	81,962
ANTHROPOLOGY	2,058	1,398	1,397
ECONOMICS	17,113	18,960	21,223
POLITICAL SCIENCE	469	600	447
SOCIOLOGY	10,487	11,240	11,118
SOCIAL SCIENCES, NEC	43,221	45,840	47,777
OTHER SCIENCES, NEC	46,510	37,044	32,253

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 93 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976, 1977, AND 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-87. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	1,059,110	725,628	29,378	38,160	43,032	20,955	82,099	73,348	46,510
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	72,158	49,656	-	3,623	437	113	2,437	15,887	5
AGRICULTURAL RESEARCH SERVICE	1,983	1,627	-	246	-	11	95	4	-
COOPERATIVE STATE RESEARCH SERVICE	68,156	46,795	-	3,377	428	-	2,342	15,214	-
ECONOMIC RESEARCH SERVICE	604	-	-	-	-	-	-	604	-
FARMER COOPERATIVE SERVICE	1	-	-	-	-	-	-	1	-
FOREST SERVICE	1,307	1,234	-	-	9		-	64	-
NATIONAL AGRICULTURAL LIBRARY	5	-	-	-	-	-	-	-	5
STATISTICAL REPORTING SERVICE	102	-	-	-	-	102	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	108,047	7,123	4,268	8,211	10,600	6,479	48,258	995	22,113
DEPARTMENT OF THE ARMY	11,390	5,056	63	1,260	1,178	491	2,944	398	-
DEPARTMENT OF THE NAVY	9,936	104	182	2,437	4,394	668	2,151	-	-
DEPARTMENT OF THE AIR FORCE	49,927	1,963	2,545	1,137	3,639	373	40,270	-	-
DEFENSE AGENCIES	36,714	-	1,443	3,377	1,389	4,947	2,893	552	22,113
DEPARTMENTWIDE FUNDS	80	-	35	-	-	-	-	45	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	763,336	647,283	25,017	4,712	-	12,525	10,877	45,061	17,861
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	48,902	20,370	17,860	45	-	457	-	9,885	285
CENTER FOR DISEASE CONTROL	2,941	2,941	-	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	7,682	7,682	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	12,762	-	-	-	-	-	-	10,362	2,400
HEALTH SERVICES ADMINISTRATION	2,528	2,528	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	1,517	-	-	-	-	-	-	1,517	-
NATIONAL INSTITUTES OF HEALTH	656,943	606,089	2,924	4,667	-	12,068	10,877	5,142	15,176
OFFICE OF EDUCATION	9,916	-	-	-	-	-	-	9,916	-
OFFICE OF HUMAN DEVELOPMENT	16,953	7,673	4,233	-	-	-	-	5,047	-
OFFICE OF THE SECRETARY	604	-	-	-	-	-	-	604	-
SOCIAL AND REHABILITATION SERVICE	2,378	-	-	-	-	-	-	2,378	-
SOCIAL SECURITY ADMINISTRATION	210	-	-	-	-	-	-	210	-
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	48,053	15,357	-	11,284	16,489	-	4,076	641	206
NATIONAL AERONAUTICS & SPACE ADMIN	30,679	2,305	93	7,492	10,590	906	7,863	183	1,247
NATIONAL SCIENCE FOUNDATION	36,837	3,904	-	2,838	4,916	932	8,588	10,581	5,078

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-88. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND PHYSICAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				PHYSICAL SCIENCES				
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC
TOTAL, ALL AGENCIES	29,378	12,372	16,146	860	38,160	2,969	11,041	22,005	2,145
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	3,623	-	3,603	20	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	246		226	20	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	3,377	-	3,377	-	-
DEPARTMENT OF DEFENSE, TOTAL	4,268	77	3,424	767	8,211	-	1,020	6,111	1,080
DEPARTMENT OF THE ARMY	63	27	36	-	1,260	-	563	286	411
DEPARTMENT OF THE NAVY	182	-	182	-	2,437	-	-	2,437	-
DEPARTMENT OF THE AIR FORCE	2,545	-	2,545	-	1,137	-	428	709	-
DEFENSE AGENCIES	1,443	28	648	767	3,377		29	2,679	669
DEPARTMENTWIDE FUNDS	35	22	13	-	-	-	-	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	25,017	12,295	12,722	-	4,712	-	3,592	1,120	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	17,860	10,523	7,337	-	45	-	45	-	-
NATIONAL INSTITUTES OF HEALTH	2,924	1,772	1,152	-	4,667	-	3,547	1,120	-
OFFICE OF HUMAN DEVELOPMENT	4,233	-	4,233	-	-	-	-	-	-
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	11,284	-	850	10,434	-
NATIONAL AERONAUTICS & SPACE ADMIN	93	-	-	93	7,492	2,969	519	2,939	1,065
NATIONAL SCIENCE FOUNDATION	-	-	-	-	2,838	-	1,457	1,381	-

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-89. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN LIFE AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	LIFE SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	BIO-LOGICAL	CLINICAL MEDICAL	OTHER MEDICAL SCIENCES	LIFE SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	725,628	184,319	407,881	103,278	30,150	43,032	15,733	10,852	9,195	7,252
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	49,656	46,560	3,096	-	-	437	437	-	-	-
AGRICULTURAL RESEARCH SERVICE	1,627	1,627	-	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	46,795	43,699	3,096	-	-	428	428	-	-	-
FOREST SERVICE	1,234	1,234	-	-	-	9	9	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	7,123	346	3,706	3,071	-	10,600	4,003	1,971	4,626	-
DEPARTMENT OF THE ARMY	5,056	276	3,672	1,108	-	1,178	118	1,060	-	-
DEPARTMENT OF THE NAVY	104	70	34	-	-	4,394	-	-	4,394	-
DEPARTMENT OF THE AIR FORCE	1,963	-	-	1,963	-	3,639	3,639	-	-	-
DEFENSE AGENCIES	-	-	-	-	-	1,389	246	911	232	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	647,283	120,009	399,734	99,670	27,870	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	20,370	14,601	1,650	1,018	3,061	-	-	-	-	-
CENTER FOR DISEASE CONTROL	2,941	-	-	2,941	-	-	-	-	-	-
FOOD AND DRUG ADMINISTRATION	7,682	5,353	-	2,329	-	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	2,528	-	2,528	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	606,089	100,055	387,843	93,382	24,809		-	-	-	-
OFFICE OF HUMAN DEVELOPMENT	7,673	-	7,673	-	-	-	-	-	-	-
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	15,357	13,129	470	221	1,537	16,489	3,537	5,790	4,191	2,971
NATIONAL AERONAUTICS & SPACE ADMIN	2,305	381	875	316	733	10,590	4,585	1,586	148	4,271
NATIONAL SCIENCE FOUNDATION	3,904	3,894	-	-	10	4,916	3,171	1,505	230	10

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-90. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	82,099	14,567	3,885	6,065	2,156	12,732	3,764	11,113	27,817
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	2,437	-	-	-	2	9	-	-	2,426
AGRICULTURAL RESEARCH SERVICE	95	-	-	-	2	9	-	-	84
COOPERATIVE STATE RESEARCH SERVICE	2,342	-	-	-	-	-	-	-	2,342
DEPARTMENT OF DEFENSE, TOTAL	48,258	11,961	3,449	2,494	1,596	10,256	2,005	8,696	7,801
DEPARTMENT OF THE ARMY	2,944	144	-	125	867	751	322	261	474
DEPARTMENT OF THE NAVY	2,151	55	-	1,654	-	315	-	127	-
DEPARTMENT OF THE AIR FORCE	40,270	11,762	3,449	715	592	8,671	1,643	7,572	5,866
DEFENSE AGENCIES	2,893	-	-	-	137	519	40	736	1,461
DEPT OF HEALTH, ED, & WELFARE, TOTAL	10,877	-	-	-	-	-	-	-	10,877
NATIONAL INSTITUTES OF HEALTH	10,877	-	-	-	-	-	-	-	10,877
OTHER AGENCIES									
ENERGY RESEARCH & DEVELOPMENT ADMIN	4,076	-	-	2,690	-	-	419	573	394
NATIONAL AERONAUTICS & SPACE ADMIN	7,863	2,606	436	403	61	1,989	848	664	856
NATIONAL SCIENCE FOUNDATION	8,588	-	-	478	497	478	492	1,180	5,463

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-91. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONO-MICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	20,955	13,507	6,427	1,021	73,348	2,058	17,113	469	10,487	43,221
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	113	113	-	-	15,887	-	15,051	-	823	13
AGRICULTURAL RESEARCH SERVICE	11	11	-	-	4	-	4	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	15,214	-	14,409	-	805	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	604	-	573	-	18	13
FARMER COOPERATIVE SERVICE	-	-	-	-	1	-	1	-	-	-
FOREST SERVICE	-	-	-	-	64	-	64	-	-	-
STATISTICAL REPORTING SERVICE	102	102	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	6,479	783	5,696	-	995	-	141	359	28	467
DEPARTMENT OF THE ARMY	491	71	420	-	398	-	124	7	-	267
DEPARTMENT OF THE NAVY	668	400	268	-	-	-		-	-	-
DEPARTMENT OF THE AIR FORCE	373	202	171	-	-	-	-	-	-	-
DEFENSE AGENCIES	4,947	110	4,837	-	552	-	-	352	-	200
DEPARTMENTWIDE FUNDS	-	-	-	-	45	-	17	-	28	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	12,525	12,525	-	-	45,061	2,028	831	-	9,476	32,726
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	457	457	-	-	9,885	2,028	100	-	6,615	1,142
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	10,362		308	-	302	9,752
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	1,517	-	-	-	-	1,517
NATIONAL INSTITUTES OF HEALTH	12,068	12,068	-	-	5,142	-	-	-	-	5,142
OFFICE OF EDUCATION	-	-	-	-	9,916	-	-	-	-	9,916
OFFICE OF HUMAN DEVELOPMENT	-	-	-	-	5,047	-	-	-	-	5,047
OFFICE OF THE SECRETARY	-	-	-	-	604	-	423	-	181	-
SOCIAL AND REHABILITATION SERVICE	-	-	-	-	2,378	-	-	-	2,378	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	210	-	-	-	-	210
OTHER AGENCIES										
ENERGY RESEARCH & DEVELOPMENT ADMIN	-	-	-	-	641	-	641	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	906	-	-	906	183	-	86	57	-	40
NATIONAL SCIENCE FOUNDATION	932	86	731	115	10,581	30	363	53	160	9,975

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-92. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF H.E.W.	DEPARTMENT OF STATE	ENVIRONMENTAL PROTECTION AGENCY	ENERGY RESEARCH AND DEVELOPMENT ADMIN	NATIONAL SCIENCE FOUNDATION	OTHER
TOTAL, ALL COUNTRIES	73,099	8,166	10,123	29,361	11,867	3,470	1,121	5,459	3,532
EUROPE, TOTAL	23,494	2,928	3,114	8,281	2,200	1,893	1,005	2,515	1,558
AUSTRIA	1,480	-	37	50	-	3	20	1,370	-
BELGIUM	256	-	166	85	-	-	-	5	-
DENMARK	214	-	63	83	-		-	-	68
FINLAND	595	-	15	461	-	-	75	-	44
FRANCE	615	213	155	169	-	-	39	15	24
ICELAND	178	-	-	68	-	-	110	-	-
IRELAND	27	-	27	-	-		-	-	-
ITALY	1,487	159	38	1,268	-	14	-	-	8
NETHERLANDS	3,506	214	169	891	2,200	-	-	-	32
NORWAY	986	-	225	124	-	-	-	-	637
POLAND	6,991	2,340	-	1,887	-	1,826	2	866	70
PORTUGAL	4	-	4	-	-	-	-	-	-
SPAIN	211	-	131	53	-	-	27	-	-
SWEDEN	2,275	-	319	1,535	-	-	-	-	421
SWITZERLAND	416	-	33	305	-	-	-	57	21
UNITED KINGDOM, TOTAL	3,777	-	1,502	1,184	-	-	690	202	199
ENGLAND	2,820	-	1,424	1,158	-	-	39	-	199
SCOTLAND	758	-	38	26	-	-	651	43	-
BERMUDA	199	-	40	-	-		-	159	-
WEST GERMANY	365	2	229	80	-	-	20	-	34
YUGOSLAVIA	88	-	-	38	-	50	-	-	-
OTHER EUROPE	23	-	1	-	-	-	22	-	-
ASIA, TOTAL	13,561	3,214	1,207	2,053	5,835	765	-	418	69
INDIA	1,260	-	356	893	-	11	-	-	-
INDONESIA	100	-	-	-	100	-	-	-	-
JAPAN	466	-	1	396	-	-	-	-	69
SOUTH KOREA	60	-	60	-	-	-	-	-	-
PAKISTAN	4,578	2,670	-	586	150	754	-	418	-
PHILIPPINES	389	-	17	-	372	-	-	-	-
TAIWAN	841	-	754	87	-		-	-	-
THAILAND	647	544	12	91	-	-	-	-	-
OTHER ASIA	5,220	-	7	-	5,213	-	-	-	-
NEAR EAST, TOTAL	15,353	1,775	2,728	8,767	100	764	34	1,185	-
GREECE	63	-	7	56	-	-	-	-	-
ISRAEL	3,317	-	559	2,630	-	94	34	-	-
UNITED ARAB REPUBLIC	11,797	1,775	2,133	6,036	-	668	-	1,185	-
OTHER NEAR EAST	176	-	29	45	100	2	-	-	-
AFRICA, TOTAL	2,764	63	85	473	2,025	-	-	100	18
KENYA	226	63	63	-	-		-	100	-
UGANDA	125	-	-	125	-	-	-	-	-
UNION OF SOUTH AFRICA	20	-	2	-	-	-	-	-	18
OTHER AFRICA	2,393	-	20	348	2,025		-	-	-
LATIN AMERICA, TOTAL	3,142	186	225	435	1,707	48	82	424	35
ARGENTINA	627	8	22	247	-		-	350	-
BOLIVIA	92	-	92	-	-		-	-	-
BRAZIL	107	-	90	17	-	-	-	-	-
CHILE	78	-	-	30	-	48	-	-	-
COLOMBIA	267	-	-	110	157	-	-	-	-
COSTA RICA	169	-	-	13	-	-	82	74	-
EL SALVADOR	178	178	-	-	-	-	-	-	-
PERU	111	-	16	-	60	-	-	-	35
URUGUAY	10	-	-	10	-	-	-	-	-
OTHER LATIN AMERICA	1,503	-	5	8	1,490		-	-	-
AUSTRALIA	1,206	-	153	992	-	-	-	-	61
CANADA	7,081	-	2,606	2,011	-	-	-	737	1,727
NEW ZEALAND	90	-	5	55	-	-	-	-	30
INTERNATIONAL ORGANIZATIONS	6,408	-	-	6,294	-			80	34

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-93. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF H.E.W.	DEPARTMENT OF STATE	ENVIRONMENTAL PROTECTION AGENCY	ENERGY RESEARCH AND DEVELOPMENT ADMIN	NATIONAL SCIENCE FOUNDATION	OTHER
TOTAL, ALL COUNTRIES	102,163	9,139	18,193	42,146	5,506	6,034	10,197	6,096	4,852
EUROPE, TOTAL	40,516	1,548	11,272	10,256	-	2,230	9,906	3,117	2,187
AUSTRIA	1,785	-	41	50	-	-	-	1,694	-
BELGIUM	384	-	219	102	-	-	58	5	-
DENMARK	229	-	74	105	-	-	-	-	50
FINLAND	396	-	16	300	-	-	80	-	-
FRANCE	745	219	196	278	-	-	37	15	-
ICELAND	131	-	-	35	-		96	-	-
IRELAND	30	-	30	-	-	-	-	-	-
ITALY	1,964	146	43	1,765	-	10	-	-	-
NETHERLANDS	1,863	240	590	1,000	-	-	-	-	33
NORWAY	351	-	241	110	-	-	-	-	-
POLAND	14,420	943	-	1,988	-	2,170	6,550	900	1,869
PORTUGAL	28	-	4	24	-	-	-	-	-
SPAIN	173	-	67	52	-	-	54	-	-
SWEDEN	1,820	-	32	1,713	-		-	-	75
SWITZERLAND	538	-	43	270	-	-	-	150	75
UNITED KINGDOM, TOTAL	11,912	-	6,664	1,835	-	-	3,010	353	50
ENGLAND	11,409	-	6,573	1,626	-	-	3,010	150	50
SCOTLAND	345	-	91	209	-	-	-	45	-
BERMUDA	158	-	-	-	-	-	-	158	-
WEST GERMANY	3,658	-	3,012	590	-	-	21	-	35
YUGOSLAVIA	89	-	-	39	-	50	-	-	-
ASIA, TOTAL	17,713	4,111	1,677	7,158	2,338	1,315	-	470	644
BURMA	60	-	-	50	-	10	-	-	-
INDIA	6,440	1,500	1,005	3,226	-	40	-	170	499
JAPAN	411	-	-	391	-	-	-	-	20
SOUTH KOREA	60	-	60	-	-	-	-	-	-
PAKISTAN	7,125	2,128	-	3,307	-	1,265	-	300	125
PHILIPPINES	18	-	18	-	-	-	-	-	-
TAIWAN	661	-	574	87	-	-	-	-	-
THAILAND	592	483	12	97	-	-	-	-	-
OTHER ASIA	2,346	-	8	-	2,338	-	-	-	-
NEAR EAST, TOTAL	25,364	3,000	3,273	14,998	-	2,474	188	1,200	231
GREECE	157	-	7	-	-	-	150	-	-
ISRAEL	3,648	-	534	2,951	-	125	38	-	-
TURKEY	10	-	10	-	-	-	-	-	-
UNITED ARAB REPUBLIC	21,256	3,000	2,660	12,047	-	2,349	-	1,200	-
OTHER NEAR EAST	293	-	62	-	-	-	-	-	231
AFRICA, TOTAL	2,583	247	23	447	1,730		-	117	19
KENYA	217	100	-	-	-	-	-	117	-
UGANDA	125	-	-	125	-	-	-	-	-
UNION OF SOUTH AFRICA	19	-	-	-	-	-	-	-	19
OTHER AFRICA	2,222	147	23	322	1,730	-	-	-	-
LATIN AMERICA, TOTAL	3,635	233	245	480	1,438	15	103	1,086	35
ARGENTINA	1,259	54	25	180	-	-	-	1,000	-
BOLIVIA	89	-	89	-	-	-	-	-	-
BRAZIL	106	-	91	-	-	-	15	-	-
CHILE	15	-	-	-	-	15	-	-	-
COLOMBIA	202	-	-	115	87	-	-	-	-
COSTA RICA	178	-	-	4	-	-	88	86	-
EL SALVADOR	179	179	-	-	-	-	-	-	-
MEXICO	57	-	-	57	-	-	-	-	-
PERU	161	-	17	109	-	-	-	-	35
URUGUAY	7	-	-	7	-	-	-	-	-
OTHER LATIN AMERICA	1,382	-	23	8	1,351	-	-	-	-
AUSTRALIA	1,409	-	166	1,093	-	-	-	-	150
CANADA	6,238	-	1,533	3,216	-	-	-	26	1,463
NEW ZEALAND	84	-	4	55	-	-	-	-	25
INTERNATIONAL ORGANIZATIONS	4,621	-	-	4,443	-	-	-	80	98

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-94. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF H.E.W.	NATIONAL SCIENCE FOUNDATION	NATIONAL AERONAUTICS AND SPACE ADMIN	OTHER
TOTAL, ALL COUNTRIES	14,763	4,168	2,273	3,040	4,082	1,166	34
EUROPE, TOTAL	4,879	1,711	795	1,211	1,146	16	-
AUSTRIA	41	-	37	-	4	-	-
BELGIUM	101	-	35	61	5	-	-
DENMARK	25	-	-	22	-	3	-
FINLAND	80	-	-	80	-	-	-
FRANCE	152	89	25	23	15	-	-
IRELAND	27	-	27	-	-	-	-
ITALY	96	66	7	23	-	-	-
NETHERLANDS	203	90	17	96	-	-	-
NORWAY	12	-	12	-	-	-	-
POLAND	2,360	1,464	-	30	866	-	-
PORTUGAL	4	-	4	-	-	-	-
SPAIN	8	-	7	1	-	-	-
SWEDEN	514	-	29	485	-	-	-
SWITZERLAND	166	-	21	88	57	-	-
UNITED KINGDOM, TOTAL	977	-	508	264	199	6	-
ENGLAND	709	-	450	253	-	6	-
SCOTLAND	72	-	18	11	43	-	-
BERMUDA	196	-	40	-	156	-	-
WEST GERMANY	74	2	65	-	-	7	-
YUGOSLAVIA	38	-	-	38	-	-	-
OTHER EUROPE	1	-	1	-	-	-	-
ASIA, TOTAL	2,481	1,391	620	50	418	2	-
INDIA	1	-	1	-	-	-	-
JAPAN	43	-	1	40	-	2	-
SOUTH KOREA	10	-	10	-	-	-	-
PAKISTAN	1,530	1,112	-	-	418	-	-
TAIWAN	608	-	608	-	-	-	-
THAILAND	289	279	-	10	-	-	-
NEAR EAST, TOTAL	3,021	963	344	529	1,185	-	-
GREECE	7	-	7	-	-	-	-
ISRAEL	865	-	336	529	-	-	-
UNITED ARAB REPUBLIC	2,148	963	-	-	1,185	-	-
OTHER NEAR EAST	1	-	1	-	-	-	-
AFRICA, TOTAL	146	26	15	5	100	-	-
KENYA	126	26	-	-	100	-	-
UNION OF SOUTH AFRICA	2	-	2	-	-	-	-
OTHER AFRICA	18	-	13	5	-	-	-
LATIN AMERICA, TOTAL	672	77	42	102	416	35	-
ARGENTINA	461	3	22	86	350	-	-
BRAZIL	17	-	15	2	-	-	-
COSTA RICA	70	-	-	4	66	-	-
EL SALVADOR	74	74	-	-	-	-	-
PERU	35	-	-	-	-	35	-
URUGUAY	10	-	-	10	-	-	-
OTHER LATIN AMERICA	5	-	5	-	-	-	-
AUSTRALIA	368	-	12	305	-	51	-
CANADA	2,746	-	445	505	737	1,059	-
NEW ZEALAND	58	-	-	55	-	3	-
INTERNATIONAL ORGANIZATIONS	392	-	-	278	80	-	34

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-95. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF H.E.W.	NATIONAL SCIENCE FOUNDATION	NATIONAL AERONAUTICS AND SPACE ADMIN	OTHER
TOTAL, ALL COUNTRIES	18,233	4,703	2,262	5,034	4,094	1,222	918
EUROPE, TOTAL	5,169	763	921	1,726	1,424	16	319
AUSTRIA	45	-	41	-	4	-	-
BELGIUM	114	-	36	73	5	-	-
DENMARK	40	-	-	37	-	3	-
FINLAND	72	-	-	72	-	-	-
FRANCE	189	92	40	42	15	-	-
IRELAND	30	-	30	-	-	-	-
ITALY	103	61	10	32	-	-	-
NETHERLANDS	171	51	20	100	-	-	-
NORWAY	26	-	26	-	-	-	-
POLAND	1,790	559	-	12	900	-	319
PORTUGAL	4	-	4	-	-	-	-
SPAIN	7	-	7	-	-	-	-
SWEDEN	656	-	32	624	-	-	-
SWITZERLAND	233	-	30	53	150	-	-
UNITED KINGDOM, TOTAL	1,563	-	565	642	350	6	-
ENGLAND	1,230	-	495	579	150	6	-
SCOTLAND	178	-	70	63	45	-	-
BERMUDA	155	-	-	-	155	-	-
WEST GERMANY	87	-	80	-	-	7	-
YUGOSLAVIA	39	-	-	39	-	-	-
ASIA, TOTAL	3,573	2,097	520	115	470	3	368
INDIA	1,379	911	-	55	170	-	243
JAPAN	52	-	-	49	-	3	-
SOUTH KOREA	10	-	10	-	-	-	-
PAKISTAN	1,321	896	-	-	300	-	125
TAIWAN	510	-	510	-	-	-	-
THAILAND	301	290	-	11	-	-	-
NEAR EAST, TOTAL	3,995	1,615	300	949	900	-	231
GREECE	7	-	7	-	-	-	-
ISRAEL	984	-	281	703	-	-	-
TURKEY	10	-	10	-	-	-	-
UNITED ARAB REPUBLIC	2,761	1,615	-	246	900	-	-
OTHER NEAR EAST	233	-	2	-	-	-	231
AFRICA, TOTAL	262	130	15	-	117	-	-
KENYA	159	42	-	-	117	-	-
OTHER AFRICA	103	88	15	-	-	-	-
LATIN AMERICA, TOTAL	1,456	98	48	198	1,077	35	-
ARGENTINA	1,099	23	25	51	1,000	-	-
COSTA RICA	81	-	-	4	77	-	-
EL SALVADOR	75	75	-	-	-	-	-
MEXICO	27	-	-	27	-	-	-
PERU	144	-	-	109	-	35	-
URUGUAY	7	-	-	7	-	-	-
OTHER LATIN AMERICA	23	-	23	-	-	-	-
AUSTRALIA	525	-	12	363	-	150	-
CANADA	2,376	-	446	888	26	1,016	-
NEW ZEALAND	57	-	-	55	-	2	-
INTERNATIONAL ORGANIZATIONS	820	-	-	740	80	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-96. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976		ESTIMATES			
			1977		1978	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	73,099	26,281	102,163	45,793	77,549	30,685
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	8,166	6,756	9,139	7,703	7,987	6,550
AGRICULTURAL RESEARCH SERVICE	8,166	6,756	9,139	7,703	7,987	6,550
DEPARTMENT OF COMMERCE, TOTAL	49	34	248	98	270	170
MARITIME ADMINISTRATION	7	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	34	34	98	98	170	170
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	8	-	150	-	100	-
DEPARTMENT OF DEFENSE, TOTAL	10,123	2,488	18,193	3,665	15,509	2,480
DEPARTMENT OF THE ARMY	1,036	-	4,027	-	2,191	-
DEPARTMENT OF THE NAVY	5,950	2,488	10,335	3,665	11,291	2,480
DEPARTMENT OF THE AIR FORCE	2,544	-	3,617	-	1,827	-
DEFENSE AGENCIES	593	-	214	-	200	-
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	29,361	10,512	42,146	22,469	30,957	11,585
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	1,122	174	2,518	1,459	2,084	1,084
CENTER FOR DISEASE CONTROL	3,541	3,541	4,093	4,093	3,556	3,556
FOOD AND DRUG ADMINISTRATION	956	861	1,794	1,794	819	819
HEALTH RESOURCES ADMINISTRATION	2,421	2,421	90	90	1,503	1,503
HEALTH SERVICES ADMINISTRATION	1,196	1,196	4,858	4,858	2,201	2,201
NATIONAL INSTITUTE OF EDUCATION	203	-	200	-	200	-
NATIONAL INSTITUTES OF HEALTH	18,124	2,319	23,544	5,126	20,594	2,422
OFFICE OF HUMAN DEVELOPMENT	1,798	-	5,049	5,049	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	390	70	2,724	2,724	1,000	1,000
BONNEVILLE POWER ADMINISTRATION	113	-	-	-	-	-
BUREAU OF MINES	207	-	-	-	-	-
OFFICE OF THE SECRETARY	70	70	2,724	2,724	1,000	1,000
DEPARTMENT OF STATE, TOTAL	11,867	-	5,506	-	5,624	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	11,867	-	5,506	-	5,624	-
DEPARTMENT OF TRANSPORTATION, TOTAL	96	-	100	-	75	-
FEDERAL RAILROAD ADMINISTRATION	96	-	100	-	75	-
OTHER AGENCIES						
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	1,121	-	10,197	-	703	-
ENVIRONMENTAL PROTECTION AGENCY	3,470	3,261	6,034	5,834	5,300	5,000
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1,925	-	1,780	-	1,800	-
NATIONAL SCIENCE FOUNDATION	5,459	3,160	6,096	3,300	7,174	3,900
NUCLEAR REGULATORY COMMISSION	1,072	-	-	-	1,150	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-97. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976		ESTIMATES			
			1977		1978	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	14,763	6,944	18,233	9,477	17,090	8,755
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	4,168	3,576	4,703	4,100	4,081	3,477
AGRICULTURAL RESEARCH SERVICE	4,168	3,576	4,703	4,100	4,081	3,477
DEPARTMENT OF COMMERCE, TOTAL	34	34	-	-	80	80
NATIONAL BUREAU OF STANDARDS	34	34	-	-	80	80
DEPARTMENT OF DEFENSE, TOTAL	2,273	-	2,262	-	2,403	-
DEPARTMENT OF THE ARMY	531	-	561	-	662	-
DEPARTMENT OF THE NAVY	1,079	-	1,025	-	1,065	-
DEPARTMENT OF THE AIR FORCE	633	-	642	-	676	-
DEFENSE AGENCIES	30	-	34	-	-	-
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	3,040	174	5,034	1,459	3,907	1,084
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	532	174	1,962	1,459	1,547	1,084
NATIONAL INSTITUTES OF HEALTH	2,508	-	3,072	-	2,360	-
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	918	918	714	714
OFFICE OF THE SECRETARY	-	-	918	918	714	714
OTHER AGENCIES						
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1,166	-	1,222	-	1,235	-
NATIONAL SCIENCE FOUNDATION	4,082	3,160	4,094	3,000	4,670	3,400

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-98. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976		ESTIMATES			
			1977		1978	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	33,929	12,009	46,214	28,532	34,775	14,452
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	3,614	2,881	4,113	3,366	3,575	2,828
AGRICULTURAL RESEARCH SERVICE	3,614	2,881	4,113	3,366	3,575	2,828
DEPARTMENT OF COMMERCE, TOTAL	15	-	248	98	190	90
MARITIME ADMINISTRATION	7	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	-	-	98	98	90	90
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	8	-	150	-	100	-
DEPARTMENT OF DEFENSE, TOTAL	1,516	-	1,153	-	1,300	-
DEPARTMENT OF THE ARMY	297	-	328	-	395	-
DEPARTMENT OF THE NAVY	174	-	79	-	104	-
DEPARTMENT OF THE AIR FORCE	482	-	566	-	601	-
DEFENSE AGENCIES	563	-	180	-	200	-
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	18,998	7,917	30,717	20,920	19,940	8,998
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	590	-	556	-	537	-
CENTER FOR DISEASE CONTROL	3,541	3,541	4,093	4,093	3,556	3,556
FOOD AND DRUG ADMINISTRATION	956	861	1,794	1,794	819	819
HEALTH SERVICES ADMINISTRATION	1,196	1,196	4,858	4,858	2,201	2,201
NATIONAL INSTITUTES OF HEALTH	10,917	2,319	14,367	5,126	12,827	2,422
OFFICE OF HUMAN DEVELOPMENT	1,798	-	5,049	5,049	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	70	70	1,806	1,806	286	286
OFFICE OF THE SECRETARY	70	70	1,806	1,806	286	286
DEPARTMENT OF STATE, TOTAL	5,042	-	3,097	-	3,027	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	5,042	-	3,097	-	3,027	-
OTHER AGENCIES						
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	411	-	429	-	403	-
ENVIRONMENTAL PROTECTION AGENCY	1,201	1,141	2,111	2,042	1,855	1,750
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	613	-	538	-	545	-
NATIONAL SCIENCE FOUNDATION	1,377	-	2,002	300	2,504	500
NUCLEAR REGULATORY COMMISSION	1,072	-	-	-	1,150	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-99. FEDERAL OBLIGATIONS FOR DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976		ESTIMATES			
			1977		1978	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	24,407	7,328	37,716	7,784	25,684	7,478
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	384	299	323	237	331	245
AGRICULTURAL RESEARCH SERVICE	384	299	323	237	331	245
DEPARTMENT OF DEFENSE, TOTAL	6,334	2,488	14,778	3,665	11,806	2,480
DEPARTMENT OF THE ARMY	208	-	3,138	-	1,134	-
DEPARTMENT OF THE NAVY	4,697	2,488	9,231	3,665	10,122	2,480
DEPARTMENT OF THE AIR FORCE	1,429	-	2,409	-	550	-
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	7,323	2,421	6,395	90	7,110	1,503
HEALTH RESOURCES ADMINISTRATION	2,421	2,421	90	90	1,503	1,503
NATIONAL INSTITUTE OF EDUCATION	203	-	200	-	200	-
NATIONAL INSTITUTES OF HEALTH	4,699	-	6,105	-	5,407	-
DEPARTMENT OF THE INTERIOR, TOTAL	320	-	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	113	-	-	-	-	-
BUREAU OF MINES	207	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	6,825	-	2,409	-	2,597	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	6,825	-	2,409	-	2,597	-
DEPARTMENT OF TRANSPORTATION, TOTAL	96	-	100	-	75	-
FEDERAL RAILROAD ADMINISTRATION	96	-	100	-	75	-
OTHER AGENCIES						
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	710	-	9,768	-	300	-
ENVIRONMENTAL PROTECTION AGENCY	2,269	2,120	3,923	3,792	3,445	3,250
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	146	-	20	-	20	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-100. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	RESEARCH, DEVELOPMENT AND R&D PLANT	RESEARCH AND DEVELOPMENT	R&D PLANT
TOTAL, ALL STATES	21,053,830	20,254,634	799,196
NEW ENGLAND	1,737,859	1,715,490	22,369
CONNECTICUT	241,317	239,383	1,934
MAINE	15,351	15,336	15
MASSACHUSETTS	1,298,920	1,284,945	13,975
NEW HAMPSHIRE	36,629	34,637	1,992
RHODE ISLAND	106,094	101,641	4,453
VERMONT	39,548	39,548	-
MIDDLE ATLANTIC	2,508,269	2,437,634	70,635
NEW JERSEY	517,729	495,615	22,114
NEW YORK	1,143,576	1,106,068	37,508
PENNSYLVANIA	846,964	835,951	11,013
EAST NORTH CENTRAL	1,503,839	1,437,325	66,514
ILLINOIS	459,219	414,017	45,202
INDIANA	93,098	92,344	754
MICHIGAN	223,045	221,034	2,011
OHIO	641,053	627,409	13,644
WISCONSIN	87,424	82,521	4,903
WEST NORTH CENTRAL	681,826	678,223	3,603
IOWA	48,970	47,852	1,118
KANSAS	32,083	31,981	102
MINNESOTA	153,485	153,019	466
MISSOURI	403,727	403,261	466
NEBRASKA	21,956	20,992	964
NORTH DAKOTA	14,796	14,309	487
SOUTH DAKOTA	6,809	6,809	-
SOUTH ATLANTIC	4,391,797	4,224,898	166,899
DELAWARE	7,898	7,898	-
DISTRICT OF COLUMBIA	591,539	570,154	21,385
FLORIDA	864,423	788,129	76,294
GEORGIA	92,141	91,940	201
MARYLAND	1,846,751	1,810,051	36,700
NORTH CAROLINA	139,740	139,096	644
SOUTH CAROLINA	34,003	30,665	3,338
VIRGINIA	762,194	750,592	11,602
WEST VIRGINIA	53,108	36,373	16,735
EAST SOUTH CENTRAL	996,451	919,506	76,945
ALABAMA	386,647	374,361	12,286
KENTUCKY	50,724	50,724	-
MISSISSIPPI	75,541	71,412	4,129
TENNESSEE	483,539	423,009	60,530
WEST SOUTH CENTRAL	1,030,800	1,019,705	11,095
ARKANSAS	27,396	26,519	877
LOUISIANA	128,150	125,896	2,254
OKLAHOMA	31,859	31,703	156
TEXAS	843,395	835,587	7,808
MOUNTAIN	1,516,529	1,392,771	123,758
ARIZONA	124,527	121,828	2,699
COLORADO	259,104	247,133	11,971
IDAHO	91,361	71,697	19,664
MONTANA	27,728	27,602	126
NEVADA	190,668	178,959	11,709
NEW MEXICO	702,404	625,766	76,638
UTAH	101,463	100,700	763
WYOMING	19,274	19,086	188
PACIFIC	6,619,882	6,363,810	256,072
ALASKA	36,237	35,420	817
CALIFORNIA	5,641,008	5,493,728	147,280
HAWAII	48,319	45,507	2,812
OREGON	86,077	84,052	2,025
WASHINGTON	808,241	705,103	103,138
OUTLYING AREAS	22,508	22,233	275
OFFICES ABROAD	44,070	43,039	1,031

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D AND R&D PLANT OBLIGATIONS IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES	20,254,634	5,511,684	9,366,772	795,204	2,498,204	1,049,319	635,232	207,491	190,728
CALIFORNIA	5,493,728	765,879	3,710,905	54,245	383,002	355,855	100,725	93,206	29,911
MARYLAND	1,810,051	1,156,705	450,108	35,990	78,895	71,583	10,435	405	5,930
MASSACHUSETTS	1,284,945	156,381	619,162	-	222,577	61,945	139,266	37,544	8,070
NEW YORK	1,106,068	87,519	427,538	129,662	276,865	84,321	76,341	-	23,822
PENNSYLVANIA	835,951	160,201	351,892	138,224	127,587	10,750	41,775	-	5,522
TEXAS	835,587	239,180	451,836	-	125,061	71	13,465	-	5,974
FLORIDA	788,129	422,373	308,074	-	49,008	-	2,520	-	6,154
VIRGINIA	750,592	363,979	297,506	-	36,809	772	7,259	39,358	4,909
WASHINGTON	705,103	24,524	465,726	93,227	64,097	-	10,485	36,227	10,817
OHIO	627,409	289,788	225,778	6,618	63,587	-	37,573	115	3,950
NEW MEXICO	625,766	195,291	52,525	166,799	18,850	186,823	4,520	-	958
DISTRICT OF COLUMBIA	570,154	417,498	79,731	-	30,132	-	37,527	176	5,090
NEW JERSEY	495,615	134,910	287,067	880	32,648	31,419	5,053	-	3,628
TENNESSEE	423,009	27,935	224,867	124,458	37,601	2,949	3,793	-	1,406
ILLINOIS	414,017	47,641	48,060	-	121,729	166,127	28,214	-	2,246
MISSOURI	403,261	23,766	314,090	-	50,608	-	10,155	-	4,642
ALABAMA	374,361	243,246	92,922	-	29,430	-	7,492	-	1,271
COLORADO	247,133	64,671	94,496	-	49,407	22,915	7,864	-	7,780
CONNECTICUT	239,383	9,271	168,644	1,500	53,170	-	3,680	-	3,118
MICHIGAN	221,034	30,355	108,827	-	69,494	-	8,706	-	3,652
NEVADA	178,959	38,236	123,872	3,447	2,874	4,464	5,764	-	302
MINNESOTA	153,019	12,667	68,967	-	47,545	-	15,614	-	8,226
NORTH CAROLINA	139,096	49,672	6,767	-	68,825	-	12,432	-	1,400
LOUISIANA	125,896	25,562	74,601	-	19,296	-	2,444	-	3,993
ARIZONA	121,828	36,199	55,891	-	20,085	7,498	900	-	1,255
RHODE ISLAND	101,641	61,900	19,143	-	16,672	-	2,312	-	1,614
UTAH	100,700	24,894	43,327	-	30,029	-	1,364	-	1,086
INDIANA	92,344	23,306	21,022	-	45,492	-	1,135	-	1,419
GEORGIA	91,940	40,161	10,452	-	38,578	-	797	-	1,952
OREGON	84,052	36,194	3,769	-	32,086	-	10,221	-	1,782
WISCONSIN	82,521	12,632	3,870	-	61,463	-	1,193	-	3,363
IDAHO	71,697	7,041	3,634	35,427	2,919	21,204	483	-	989
MISSISSIPPI	71,412	41,049	17,705	-	11,464	-	274	-	920
KENTUCKY	50,724	8,279	26,476	-	13,101	-	677	-	2,191
IOWA	47,852	8,359	6,308	-	23,046	8,475	234	-	1,430
HAWAII	45,507	13,914	7,476	-	22,177	-	1,220	-	720
VERMONT	39,548	1,164	29,016	-	7,817	-	553	-	998
WEST VIRGINIA	36,373	15,872	6,335	-	4,821	5,335	1,585	-	2,425
ALASKA	35,420	22,636	1,526	-	8,480	-	783	-	1,995
NEW HAMPSHIRE	34,637	6,904	17,809	-	8,835	-	519	-	570
KANSAS	31,981	6,334	6,997	-	17,136	-	720	-	794
OKLAHOMA	31,703	10,042	6,086	-	12,183	-	1,767	-	1,625
SOUTH CAROLINA	30,665	6,879	5,650	4,727	10,640	-	41	-	2,728
MONTANA	27,602	12,879	5,891	-	4,829	-	2,748	-	1,255
ARKANSAS	26,519	17,203	1,968	-	5,737	-	138	-	1,473
NEBRASKA	20,992	6,301	1,979	-	11,984	-	222	-	506
WYOMING	19,066	13,924	41	-	4,726	-	14	-	381
MAINE	15,336	1,770	4,345	-	3,958	-	4,003	-	1,256
NORTH DAKOTA	14,309	8,169	333	-	4,962	-	175	-	670
DELAWARE	7,898	838	1,054	-	5,459	-	323	-	224
SOUTH DAKOTA	6,809	1,862	1,222	-	3,147	-	-	-	578
OUTLYING AREAS	22,233	8,217	1,141	-	7,281	3,776	70	-	1,748
OFFICES ABROAD	43,039	29,512	2,341	-	-	3,037	7,689	460	-

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-101A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH PERFORMER, BY STATE: FISCAL YEAR 1976

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL: INDUSTRIAL FIRMS	EXTRAMURAL: FFRDCS ADMIN BY INDUSTRIAL FIRMS	EXTRAMURAL: UNIVER-SITIES AND COLLEGES	EXTRAMURAL: FFRDCS ADMIN BY UNIVS AND COLLEGES	EXTRAMURAL: OTHER NONPROFIT INSTITU-TIONS	EXTRAMURAL: FFRDCS ADMIN BY NONPROFIT INSTITU-TIONS	EXTRAMURAL: STATE AND LOCAL GOVTS
TOTAL, ALL STATES	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	27.1	13.9	39.6	6.8	15.3	33.9	15.9	44.9	15.7
MARYLAND	8.9	21.0	4.8	4.5	3.2	6.8	1.6	.2	3.1
MASSACHUSETTS	6.3	3.6	6.6	-	8.9	5.9	21.9	18.1	4.2
NEW YORK	5.5	1.6	4.6	16.3	11.1	8.0	12.0	-	12.5
PENNSYLVANIA	4.1	2.9	3.8	17.4	5.1	1.0	6.6	-	2.9
TEXAS	4.1	4.3	4.8	-	5.0	*	2.1	-	3.1
FLORIDA	3.9	7.7	3.3	-	2.0	-	.4	-	3.2
VIRGINIA	3.7	6.6	3.2	-	1.5	.1	1.1	19.0	2.6
WASHINGTON	3.5	.4	5.0	11.7	2.6	-	1.7	17.5	5.7
OHIO	3.1	5.3	2.4	.8	2.5	-	5.9	.1	2.1
NEW MEXICO	3.1	3.5	.6	21.0	.8	17.8	.7	-	.5
DISTRICT OF COLUMBIA	2.8	7.6	.9	-	1.2	-	5.9	.1	2.7
NEW JERSEY	2.4	2.4	3.1	.1	1.3	3.0	.8	-	1.9
TENNESSEE	2.1	.5	2.4	15.7	1.5	.3	.6	-	.7
ILLINOIS	2.0	.9	.5	-	4.9	15.8	4.4	-	1.2
MISSOURI	2.0	.4	3.4	-	2.0	-	1.6	-	2.4
ALABAMA	1.8	4.4	1.0	-	1.2	-	1.2	-	.7
COLORADO	1.2	1.2	1.0	-	2.0	2.2	1.2	-	4.1
CONNECTICUT	1.2	.2	1.8	.2	2.1	-	.6	-	1.6
MICHIGAN	1.1	.6	1.2	-	2.8	-	1.4	-	1.9
NEVADA	.9	.7	1.3	.4	.1	.4	.9	-	.2
MINNESOTA	.8	.2	.7	-	1.9	-	2.5	-	4.3
NORTH CAROLINA	.7	.9	.1	-	2.8	-	2.0	-	.7
LOUISIANA	.6	.5	.8	-	.8	-	.4	-	2.1
ARIZONA	.6	.7	.6	-	.8	.7	.1	-	.7
RHODE ISLAND	.5	1.1	.2	-	.7	-	.4	-	.8
UTAH	.5	.5	.5	-	1.2	-	.2	-	.6
INDIANA	.5	.4	.2	-	1.8	-	.2	-	.7
GEORGIA	.5	.7	.1	-	1.5	-	.1	-	1.0
OREGON	.4	.7	*	-	1.3	-	1.6	-	.9
WISCONSIN	.4	.2	*	-	2.5	-	.2	-	1.8
IDAHO	.4	.1	*	4.5	.1	2.0	.1	-	.5
MISSISSIPPI	.4	.7	.2	-	.5	-	*	-	.5
KENTUCKY	.3	.2	.3	-	.5	-	.1	-	1.1
IOWA	.2	.2	.1	-	.9	.8	*	-	.7
HAWAII	.2	.3	.1	-	.9	-	.2	-	.4
VERMONT	.2	*	.3	-	.3	-	.1	-	.5
WEST VIRGINIA	.2	.3	.1	-	.2	.5	.2	-	1.2
ALASKA	.2	.4	*	-	.3	-	.1	-	1.0
NEW HAMPSHIRE	.2	.1	.2	-	.4	-	.1	-	.3
KANSAS	.2	.1	.1	-	.7	-	.1	-	.4
OKLAHOMA	.2	.2	.1	-	.5	-	.3	-	.9
SOUTH CAROLINA	.2	.1	.1	.6	.4	-	*	-	1.4
MONTANA	.1	.2	.1	-	.2	-	.4	-	.7
ARKANSAS	.1	.3	*	-	.2	-	*	-	.8
NEBRASKA	.1	.1	*	-	.5	-	*	-	.3
WYOMING	.1	.3	*	-	.2	-	*	-	.2
MAINE	.1	*	*	-	.2	-	.6	-	.7
NORTH DAKOTA	.1	.1	*	-	.2	-	*	-	.4
DELAWARE	*	*	*	-	.2	-	.1	-	.1
SOUTH DAKOTA	*	*	*	-	.1	-	-	-	.3
OUTLYING AREAS	.1	.1	*	-	.3	.4	*	-	.9
OFFICES ABROAD	.2	.5	*	-	-	.3	1.2	.2	-

* PERCENTAGE LESS THAN .05%.

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-101B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH STATE, BY PERFORMER: FISCAL YEAR 1976

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITU-TIONS	FFRDCS ADMIN BY NONPROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES	100.0%	27.2%	46.2%	3.9%	12.3%	5.2%	3.1%	1.0%	.9%
CALIFORNIA	100.0	13.9	67.5	1.0	7.0	6.5	1.8	1.7	.5
MARYLAND	100.0	63.9	24.9	2.0	4.4	4.0	.6	*	.3
MASSACHUSETTS	100.0	15.3	48.2	-	17.3	4.8	10.8	2.9	.6
NEW YORK	100.0	7.9	38.7	11.7	25.0	7.6	6.9	-	2.2
PENNSYLVANIA	100.0	19.2	42.1	16.5	15.3	1.3	5.0	-	.7
TEXAS	100.0	28.6	54.1	-	15.0	*	1.6	-	.7
FLORIDA	100.0	53.6	39.1	-	6.2	-	.3	-	.8
VIRGINIA	100.0	48.5	39.6	-	4.9	.1	1.0	5.2	.7
WASHINGTON	100.0	3.5	66.1	13.2	9.1	-	1.5	5.1	1.5
OHIO	100.0	46.2	36.0	1.1	10.1	-	6.0	*	.6
NEW MEXICO	100.0	31.2	8.4	26.7	3.0	29.9	.7	-	.2
DISTRICT OF COLUMBIA	100.0	73.2	14.0	-	5.3	-	6.6	*	.9
NEW JERSEY	100.0	27.2	57.9	.2	6.6	6.3	1.0	-	.7
TENNESSEE	100.0	6.6	53.2	29.4	8.9	.7	.9	-	.3
ILLINOIS	100.0	11.5	11.6	-	29.4	40.1	6.8	-	.5
MISSOURI	100.0	5.9	77.9	-	12.5	-	2.5	-	1.2
ALABAMA	100.0	65.0	24.8	-	7.9	-	2.0	-	.3
COLORADO	100.0	26.2	38.2	-	20.0	9.3	3.2	-	3.1
CONNECTICUT	100.0	3.9	70.4	.6	22.2	-	1.5	-	1.3
MICHIGAN	100.0	13.7	49.2	-	31.4	-	3.9	-	1.7
NEVADA	100.0	21.4	69.2	1.9	1.6	2.5	3.2	-	.2
MINNESOTA	100.0	8.3	45.1	-	31.1	-	10.2	-	5.4
NORTH CAROLINA	100.0	35.7	4.9	-	49.5	-	8.9	-	1.0
LOUISIANA	100.0	20.3	59.3	-	15.3	-	1.9	-	3.2
ARIZONA	100.0	29.7	45.9	-	16.5	6.2	.7	-	1.0
RHODE ISLAND	100.0	60.9	18.8	-	16.4	-	2.3	-	1.6
UTAH	100.0	24.7	43.0	-	29.8	-	1.4	-	1.1
INDIANA	100.0	25.2	22.8	-	49.3	-	1.2	-	1.5
GEORGIA	100.0	43.7	11.4	-	42.0	-	.9	-	2.1
OREGON	100.0	43.1	4.5	-	38.2	-	12.2	-	2.1
WISCONSIN	100.0	15.3	4.7	-	74.5	-	1.4	-	4.1
IDAHO	100.0	9.8	5.1	49.4	4.1	29.6	.7	-	1.4
MISSISSIPPI	100.0	57.5	24.8	-	16.1	-	.4	-	1.3
KENTUCKY	100.0	16.3	52.2	-	25.8	-	1.3	-	4.3
IOWA	100.0	17.5	13.2	-	48.2	17.7	.5	-	3.0
HAWAII	100.0	30.6	16.4	-	48.7	-	2.7	-	1.6
VERMONT	100.0	2.9	73.4	-	19.8	-	1.4	-	2.5
WEST VIRGINIA	100.0	43.6	17.4	-	13.3	14.7	4.4	-	6.7
ALASKA	100.0	63.9	4.3	-	23.9	-	2.2	-	5.6
NEW HAMPSHIRE	100.0	19.9	51.4	-	25.5	-	1.5	-	1.6
KANSAS	100.0	19.8	21.9	-	53.6	-	2.3	-	2.5
OKLAHOMA	100.0	31.7	19.2	-	38.4	-	5.6	-	5.1
SOUTH CAROLINA	100.0	22.4	18.4	15.4	34.7	-	.1	-	8.9
MONTANA	100.0	46.7	21.3	-	17.5	-	10.0	-	4.5
ARKANSAS	100.0	64.9	7.4	-	21.6	-	.5	-	5.6
NEBRASKA	100.0	30.0	9.4	-	57.1	-	1.1	-	2.4
WYOMING	100.0	73.0	.2	-	24.8	-	.1	-	2.0
MAINE	100.0	11.5	28.4	-	25.8	-	26.1	-	8.2
NORTH DAKOTA	100.0	57.1	2.3	-	34.7	-	1.2	-	4.7
DELAWARE	100.0	10.6	13.3	-	69.1	-	4.1	-	2.8
SOUTH DAKOTA	100.0	27.3	17.9	-	46.2	-	-	-	8.5
OUTLYING AREAS	100.0	37.0	5.1	-	32.7	17.0	.3	-	7.9
OFFICES ABROAD	100.0	68.6	5.4	-	-	7.1	17.9	1.1	-

* PERCENTAGE LESS THAN .05%.

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-102. FEDERAL OBLIGATICNS FOR RESEARCH AND DEVELOPMENT, BY STATE AND AGENCY: FISCAL YEAR 1976

(THOUSANDS CF DOLLARS)

STATE (IN ORDER OF TCTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT CF AGRI- CULTURE	DEPT OF COM- MERCE	DEPT OF DEFENSE	DEPT CF HEALTH, EDUC & WELFARE	DEPT OF THE INTERI- OR	DEPT CF TRANS- POR- TATION	ENERGY RESEARCH & DEVELOP ADMIN	ENVIRON- MENTAL PROTEC- TION AGENCY	NATIONAL AERO- NAUTICS & SPACE ADMIN	NATION- AL SCIENCE FOUNDA- TION
TOTAL, ALL STATES	20,254,634	454,283	228,804	9,644,599	2,516,565	313,852	294,404	2,497,757	255,668	3,444,905	603,797
CALIFORNIA	5,493,728	28,204	12,590	2,959,703	286,891	29,597	24,364	505,427	26,035	1,481,365	99,552
MARYLAND	1,810,051	44,446	64,371	775,918	535,964	8,199	43,985	21,090	21,813	281,845	12,420
MASSACHUSETTS	1,284,945	1,702	11,656	897,477	178,503	8,133	47,889	32,974	6,033	50,588	49,950
NEW YORK	1,106,068	12,356	8,733	487,111	268,999	4,962	15,212	187,922	4,782	56,634	59,357
PENNSYLVANIA	835,951	14,106	1,997	307,363	119,279	57,317	17,018	250,916	6,067	37,655	24,233
TEXAS	835,587	17,621	5,087	336,768	89,808	5,957	20,696	11,973	7,633	326,793	13,251
FLORIDA	788,129	11,308	14,456	455,690	29,963	3,626	3,495	7,674	3,318	247,059	11,540
VIRGINIA	750,592	3,740	6,518	444,908	39,189	17,469	26,247	22,749	7,535	172,867	9,370
WASHINGTCN	705,103	7,360	11,220	416,370	55,890	11,807	13,094	146,475	2,660	26,388	13,839
OHIO	627,409	6,610	645	353,587	65,258	4,949	9,584	32,700	26,574	118,615	8,887
NEW MEXICO	625,766	2,364	235	231,252	8,225	3,574	2,346	359,852	205	16,134	1,539
DISTRICT CF COLUMBIA	570,154	49,267	13,474	219,379	78,860	11,557	20,069	13,570	22,650	65,924	75,384
NEW JERSEY	495,615	2,019	6,430	341,528	24,449	3,091	4,140	57,197	5,160	40,834	10,767
TENNESSEE	423,009	4,671	544	81,024	32,434	1,500	535	277,994	9,301	9,646	5,362
ILLINOIS	414,017	17,062	1,537	69,056	75,847	3,043	4,741	198,167	2,682	10,939	30,943
MISSOURI	403,261	6,188	764	328,258	44,420	3,789	4,756	2,547	2,408	4,328	5,803
ALABAMA	374,361	5,848	1,034	133,139	27,609	2,117	3,700	2,534	1,316	195,953	1,111
COLORADO	247,133	8,527	18,486	32,436	34,798	30,436	13,482	20,781	5,232	47,255	35,700
CONNECTICUT	239,383	2,232	3,009	145,712	44,346	671	1,612	18,176	2,126	14,267	7,232
MICHIGAN	221,034	6,052	4,186	106,205	48,783	3,858	1,660	19,182	6,947	8,448	15,713
NEVADA	178,959	1,154	85	18,677	488	5,783	102	142,088	8,976	601	1,005
MINNESOTA	153,019	7,106	410	51,641	50,259	6,912	2,366	9,245	7,641	12,897	4,542
NORTH CAROLINA	139,096	9,454	2,619	15,608	69,490	1,670	540	3,133	26,571	2,298	7,713
LOUISIANA	125,896	22,015	2,116	3,263	15,782	1,222	2,260	685	833	75,846	1,874
ARIZONA	121,828	8,424	468	64,685	12,066	4,723	570	4,239	408	14,657	11,588
RHODE ISLAND	101,641	683	3,082	78,414	6,177	405	341	770	1,237	3,300	7,232
UTAH	100,700	4,342	355	26,237	15,992	9,313	540	3,748	1,448	33,163	5,562
INDIANA	92,344	3,946	822	35,477	20,336	808	962	4,124	370	9,588	15,911
GEORGIA	91,940	18,933	1,304	11,053	35,613	3,688	459	4,461	2,773	9,288	4,368
OREGON	84,052	10,338	4,963	2,451	27,310	10,372	724	1,530	17,874	1,457	7,033
WISCONSIN	82,521	13,312	1,649	4,352	43,590	2,079	237	3,496	2,399	2,886	8,521
IDAHO	71,697	5,500	250	-	1,675	3,305	43	60,634	110	47	133
MISSISSIPPI	71,412	15,080	5,151	22,805	5,322	894	730	648	328	19,908	546
KENTUCKY	50,724	4,942	17	23,111	10,035	2,974	796	4,035	2,161	293	1,360
IOWA	47,852	10,703	105	6,219	15,830	777	520	8,717	451	2,738	1,788
HAWAII	45,507	2,616	3,089	17,903	7,021	1,601	69	1,437	430	8,169	3,172
VERMONT	39,548	1,527	180	29,384	7,663	371	18	116	86	31	172
WEST VIRGINIA	36,373	3,846	125	2,066	8,692	3,791	1,010	10,983	132	166	5,562
ALASKA	35,420	2,623	7,233	7,733	1,366	10,513	599	611	80	1,480	3,182
NEW HAMPSHIRE	34,637	2,094	75	22,729	5,672	420	13	926	30	1,148	1,530
KANSAS	31,981	3,898	163	10,163	12,355	872	377	510	26	1,749	1,868
OKLAHOMA	31,703	4,875	2,073	4,345	6,138	1,098	624	7,756	1,471	655	2,668
SOUTH CAROLINA	30,665	6,044	1,020	2,177	6,720	1,759	345	10,746	876	248	730
MONTANA	27,602	8,609	580	1,796	7,108	4,767	47	3,164	1,013	16	502
ARKANSAS	26,519	3,170	155	3,616	11,775	1,355	210	268	5,421	182	367
NEBRASKA	20,992	7,512	41	2,057	8,724	639	108	276	56	171	1,368
WYOMING	19,086	1,820	30	143	562	6,672	132	6,958	40	1,531	1,198
MAINE	15,336	2,278	1,947	3,467	4,578	975	337	230	315	38	1,171
NORTH DAKOTA	14,309	7,204	205	125	984	2,220	17	3,125	64	-	365
DELAWARE	7,898	1,529	790	932	1,494	694	267	387	39	189	1,577
SOUTH DAKOTA	6,809	2,622	89	208	813	1,226	347	1,045	109	140	210
OUTLYING AREAS	22,233	4,302	640	3,370	5,420	4,302	51	147	-	52	3,949
OFFICES ABROAD	43,039	95	1	5,428	-			7,619	423	26,436	3,037

NOTE: THE OBLIGATICNS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TCTAL FEDERAL R&D OBLIGATIONS IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATICN.

TABLE C-102A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH AGENCY, BY STATE: FISCAL YEAR 1976

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF HEALTH, EDUC & WELFARE	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENERGY RESEARCH & DEVELOP ADMIN	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL, ALL STATES	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	27.1	6.2	5.5	31.1	11.4	9.4	8.3	20.2	10.2	43.0	16.5
MARYLAND	8.9	9.8	28.1	8.0	21.3	2.6	14.9	.8	8.5	8.2	2.1
MASSACHUSETTS	6.3	.4	5.1	9.3	7.1	2.6	16.3	1.3	2.4	1.5	8.3
NEW YORK	5.5	2.7	3.8	5.1	10.7	1.6	5.2	7.5	1.9	1.6	9.8
PENNSYLVANIA	4.1	3.1	.9	3.2	4.7	18.3	5.8	10.0	2.4	1.1	4.0
TEXAS	4.1	3.9	2.2	3.5	3.6	1.9	7.0	.5	3.0	9.5	2.2
FLORIDA	3.9	2.5	6.3	4.7	1.2	1.2	1.2	.3	1.3	7.2	1.9
VIRGINIA	3.7	.8	2.8	4.6	1.6	5.6	8.9	.9	2.9	5.0	1.6
WASHINGTON	3.5	1.6	4.9	4.3	2.2	3.8	4.4	5.9	1.0	.8	2.3
OHIO	3.1	1.5	.3	3.7	2.6	1.6	3.3	1.3	10.4	3.4	1.5
NEW MEXICO	3.1	.5	.1	2.4	.3	1.1	.8	14.4	.1	.5	.3
DISTRICT OF COLUMBIA	2.8	10.8	5.9	2.3	3.1	3.7	6.8	.5	8.9	1.9	12.5
NEW JERSEY	2.4	.4	2.8	3.5	1.0	1.0	1.4	2.3	2.0	1.2	1.8
TENNESSEE	2.1	1.0	.2	.8	1.3	.5	.2	11.1	3.6	.3	.9
ILLINOIS	2.0	3.8	.7	.7	3.0	1.0	1.6	7.9	1.0	.3	5.1
MISSOURI	2.0	1.4	.3	3.4	1.8	1.2	1.6	.1	.9	.1	1.0
ALABAMA	1.8	1.3	.5	1.4	1.1	.7	1.3	.1	.5	5.7	.2
COLORADO	1.2	1.9	8.1	.3	1.4	9.7	4.6	.8	2.0	1.4	5.9
CONNECTICUT	1.2	.5	1.3	1.5	1.8	.2	.5	.7	.8	.4	1.2
MICHIGAN	1.1	1.3	1.8	1.1	1.9	1.2	.6	.8	2.7	.2	2.6
NEVADA	.9	.3	*	.2	*	1.8	*	5.7	3.5	*	.2
MINNESOTA	.8	1.6	.2	.5	2.0	2.2	.8	.4	3.0	.4	.8
NORTH CAROLINA	.7	2.1	1.1	.2	2.8	.5	.2	.1	10.4	.1	1.3
LOUISIANA	.6	4.8	.9	*	.6	.4	.8	*	.3	2.2	.3
ARIZONA	.6	1.9	.2	.7	.5	1.5	.2	.2	.2	.4	1.9
RHODE ISLAND	.5	.2	1.3	.8	.2	.1	.1	*	.5	.1	1.2
UTAH	.5	1.0	.2	.3	.6	3.0	.2	.2	.6	1.0	.9
INDIANA	.5	.9	.4	.4	.8	.3	.3	.2	.1	.3	2.6
GEORGIA	.5	4.2	.6	.1	1.4	1.2	.2	.2	1.1	.3	.7
OREGON	.4	2.3	2.2	*	1.1	3.3	.2	.1	7.0	*	1.2
WISCONSIN	.4	2.9	.7	*	1.7	.7	.1	.1	.9	.1	1.4
IDAHO	.4	1.2	.1	-	.1	1.1	*	2.4	*	*	*
MISSISSIPPI	.4	3.3	2.3	.2	.2	.3	.2	*	.1	.6	.1
KENTUCKY	.3	1.1	*	.2	.4	.9	.3	.2	1.2	*	.2
IOWA	.2	2.4	*	.1	.6	.2	.2	.3	.2	.1	.3
HAWAII	.2	.6	1.4	.2	.3	.5	*	.1	.2	.2	.5
VERMONT	.2	.3	.1	.3	.3	.1	*	*	*	*	*
WEST VIRGINIA	.2	.8	.1	*	.3	1.2	.3	.4	.1	*	.9
ALASKA	.2	.6	3.2	.1	.1	3.3	.2	*	*	*	.5
NEW HAMPSHIRE	.2	.5	*	.2	.2	.1	*	*	*	*	.3
KANSAS	.2	.9	.1	.1	.5	.3	.1	*	*	.1	.3
OKLAHOMA	.2	1.1	.9	*	.2	.3	.2	.3	.6	*	.4
SOUTH CAROLINA	.2	1.3	.4	*	.3	.6	.1	.4	.3	*	.1
MONTANA	.1	1.9	.3	*	.3	1.5	*	.1	.4	*	.1
ARKANSAS	.1	.7	.1	*	.5	.4	.1	*	2.1	*	.1
NEBRASKA	.1	1.7	*	*	.3	.2	*	*	*	*	.2
WYOMING	.1	.4	*	*	*	2.1	*	.3	*	*	.2
MAINE	.1	.5	.9	*	.2	.3	.1	*	.1	*	.2
NORTH DAKOTA	.1	1.6	.1	*	*	.7	*	.1	*	-	.1
DELAWARE	*	.3	.3	*	.1	.2	.1	*	*	*	.3
SOUTH DAKOTA	*	.6	*	*	*	.4	.1	*	*	*	*
OUTLYING AREAS	.1	.9	.3	*	.2	1.4	*	*	-	*	.7
OFFICES ABROAD	.2	*	*	.1	-	-	-	.3	.2	.8	.5

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-102B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH STATE, BY AGENCY: FISCAL YEAR 1976

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF HEALTH, EDUC & WELFARE	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENERGY RESEARCH & DEVELOP ADMIN	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL, ALL STATES	100.0%	2.2%	1.1%	47.6%	12.4%	1.5%	1.5%	12.3%	1.3%	17.0%	3.0%
CALIFORNIA	100.0	.5	.2	54.6	5.2	.5	.4	9.2	.5	27.0	1.8
MARYLAND	100.0	2.5	3.6	42.9	29.6	.5	2.4	1.2	1.2	15.6	.7
MASSACHUSETTS	100.0	.1	.9	69.8	13.9	.6	3.7	2.6	.5	3.9	3.9
NEW YORK	100.0	1.1	.8	44.0	24.3	.4	1.4	17.0	.4	5.1	5.4
PENNSYLVANIA	100.0	1.7	.2	36.8	14.3	6.9	2.0	30.0	.7	4.5	2.9
TEXAS	100.0	2.1	.6	40.3	10.7	.7	2.5	1.4	.9	39.1	1.6
FLORIDA	100.0	1.4	1.8	57.8	3.8	.5	.4	1.0	.4	31.3	1.5
VIRGINIA	100.0	.5	.9	59.3	5.2	2.3	2.5	3.0	1.0	23.0	1.2
WASHINGTON	100.0	1.0	1.6	59.1	7.9	1.7	1.9	20.8	.4	3.7	2.0
OHIO	100.0	1.1	.1	56.4	10.4	.8	1.5	5.2	4.2	18.9	1.4
NEW MEXICO	100.0	.4	*	37.0	1.3	.6	.4	57.5	*	2.6	.2
DISTRICT OF COLUMBIA	100.0	8.6	2.4	38.5	13.8	2.0	3.5	2.4	4.0	11.6	13.2
NEW JERSEY	100.0	.4	1.3	68.9	4.9	.6	.8	11.5	1.0	8.2	2.2
TENNESSEE	100.0	1.1	.1	19.2	7.7	.4	.1	65.7	2.2	2.3	1.3
ILLINOIS	100.0	4.1	.4	16.7	18.3	.7	1.1	47.9	.6	2.6	7.5
MISSOURI	100.0	1.5	.2	81.4	11.0	.9	1.2	.6	.6	1.1	1.4
ALABAMA	100.0	1.6	.3	35.6	7.4	.6	1.0	.7	.4	52.3	.3
COLORADO	100.0	3.5	7.5	13.1	14.1	12.3	5.5	8.4	2.1	19.1	14.4
CONNECTICUT	100.0	.9	1.3	60.9	18.5	.3	.7	7.6	.9	6.0	3.0
MICHIGAN	100.0	2.7	1.9	48.0	22.1	1.7	.8	8.7	3.1	3.8	7.1
NEVADA	100.0	.6	*	10.4	.3	3.2	.1	79.4	5.0	.3	.6
MINNESOTA	100.0	4.6	.3	33.7	32.8	4.5	1.5	6.0	5.0	8.4	3.0
NORTH CAROLINA	100.0	6.8	1.9	11.2	50.0	1.2	.4	2.3	19.1	1.7	5.5
LOUISIANA	100.0	17.5	1.7	2.6	12.5	1.0	1.8	.5	.7	60.2	1.5
ARIZONA	100.0	6.9	.4	53.1	9.9	3.9	.5	3.5	.3	12.0	9.5
RHODE ISLAND	100.0	.7	3.0	77.1	6.1	.4	.3	.8	1.2	3.2	7.1
UTAH	100.0	4.3	.4	26.1	15.9	9.2	.5	3.7	1.4	32.9	5.5
INDIANA	100.0	4.3	.9	38.4	22.0	.9	1.0	4.5	.4	10.4	17.2
GEORGIA	100.0	20.6	1.4	12.0	38.7	4.0	.5	4.9	3.0	10.1	4.8
OREGON	100.0	12.3	5.9	2.9	32.5	12.3	.9	1.8	21.3	1.7	8.4
WISCONSIN	100.0	16.1	2.0	5.3	52.8	2.5	.3	4.2	2.9	3.5	10.3
IDAHO	100.0	7.7	.3	-	2.3	4.6	.1	84.6	.2	.1	.2
MISSISSIPPI	100.0	21.1	7.2	31.9	7.5	1.3	1.0	.9	.5	27.9	.8
KENTUCKY	100.0	9.7	*	45.6	19.8	5.9	1.6	8.0	6.2	.6	2.7
IOWA	100.0	22.4	.2	13.0	33.1	1.6	1.1	18.2	.9	5.7	3.7
HAWAII	100.0	5.7	6.8	39.3	15.4	3.5	.2	3.2	.9	18.0	7.0
VERMONT	100.0	3.9	.5	74.3	19.4	.9	*	.3	.2	.1	.4
WEST VIRGINIA	100.0	10.6	.3	5.7	23.9	10.4	2.8	30.2	.4	.5	15.3
ALASKA	100.0	7.4	20.4	21.8	3.9	29.7	1.7	1.7	.2	4.2	9.0
NEW HAMPSHIRE	100.0	6.0	.2	65.6	16.4	1.2	*	2.7	.1	3.3	4.4
KANSAS	100.0	12.2	.5	31.8	38.6	2.7	1.2	1.6	.1	5.5	5.8
OKLAHOMA	100.0	15.4	6.5	13.7	19.4	3.5	2.0	24.5	4.6	2.1	8.4
SOUTH CAROLINA	100.0	15.7	3.3	7.1	21.9	5.7	1.1	35.0	2.9	.8	2.4
MONTANA	100.0	31.2	2.1	6.5	25.8	17.3	.2	11.5	3.7	.1	1.8
ARKANSAS	100.0	12.0	.6	13.6	44.4	5.1	.8	1.0	20.4	.7	1.4
NEBRASKA	100.0	35.8	.2	10.0	41.6	3.0	.5	1.3	.3	.8	6.5
WYOMING	100.0	9.5	.2	.7	2.9	35.0	.7	36.5	.2	8.0	6.3
MAINE	100.0	14.9	12.7	22.6	29.9	6.4	2.2	1.5	2.1	.2	7.6
NORTH DAKOTA	100.0	50.3	1.4	.9	6.9	15.5	.1	21.8	.4	-	2.6
DELAWARE	100.0	19.4	10.0	11.8	18.9	8.8	3.4	4.9	.5	2.4	20.0
SOUTH DAKOTA	100.0	38.5	1.3	3.1	11.9	18.0	5.1	15.3	1.6	2.1	3.1
OUTLYING AREAS	100.0	19.3	2.9	15.2	24.4	19.3	.2	.7	-	.2	17.8
OFFICES ABROAD	100.0	.2	*	12.6	-	-	-	17.7	1.0	61.4	7.1

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES									
TOTAL	20,254,634	5,511,684	9,366,772	795,204	2,498,204	1,049,319	635,232	207,491	190,728
DEPARTMENT OF AGRICULTURE	454,283	332,952	524	-	119,646	-	385	68	708
DEPARTMENT OF COMMERCE	228,804	149,019	28,206	150	27,883	658	8,463	382	14,043
DEPARTMENT OF DEFENSE	9,644,599	2,823,182	6,098,128	81,730	230,189	156,347	109,405	145,618	-
DEPT OF HEALTH, EDUC AND WELFARE	2,516,565	493,405	133,267	35,990	1,349,377	5,847	385,062	4,648	108,969
DEPARTMENT OF THE INTERIOR	313,852	220,176	65,167	-	26,399	661	-	378	1,071
DEPARTMENT OF TRANSPORTATION	254,404	63,113	158,710	-	14,800	2,354	3,624	10,999	40,804
ENERGY RESEARCH AND DEVELOP ADMIN	2,497,757	73,661	758,261	675,207	145,109	754,381	48,501	39,075	3,562
ENVIRONMENTAL PROTECTION AGENCY	255,668	122,995	67,086	-	29,327	-	17,572	913	17,775
NATIONAL AERONAUTICS AND SPACE ADMIN.	3,444,905	1,168,321	2,042,054	-	118,886	83,625	28,446	3,072	501
NATIONAL SCIENCE FOUNDATION	603,797	64,860	15,369	2,127	436,588	45,446	33,774	2,338	3,295
NEW ENGLAND									
TOTAL	1,715,490	277,390	858,123	1,500	313,029	61,945	150,333	37,544	15,626
DEPARTMENT OF AGRICULTURE	10,516	3,939	229	-	5,838	-	7	-	503
DEPARTMENT OF COMMERCE	19,949	9,111	3,131	-	4,931	-	1,173	-	1,603
DEPARTMENT OF DEFENSE	1,177,183	216,935	743,504	-	64,747	60,705	54,335	36,957	-
DEPT OF HEALTH, EDUC AND WELFARE	246,939	717	19,098	-	137,246	-	78,708	581	10,589
DEPARTMENT OF THE INTERIOR	10,975	3,318	5,734	-	1,452	463	-	-	7
DEPARTMENT OF TRANSPORTATION	50,210	38,555	9,035	-	1,030	121	86	-	1,383
ENERGY RESEARCH AND DEVELOP ADMIN	53,192	832	26,268	1,500	23,674	-	660	-	258
ENVIRONMENTAL PROTECTION AGENCY	9,827	99	6,707	-	2,089	-	150	-	782
NATIONAL AERONAUTICS AND SPACE ADMIN.	69,372	3,874	41,512	-	13,204	-	10,782	-	-
NATIONAL SCIENCE FOUNDATION	67,327	10	2,905	-	58,817	656	4,432	6	501
CONNECTICUT									
TOTAL	239,383	9,271	168,644	1,500	53,170	-	3,680	-	3,118
DEPARTMENT OF AGRICULTURE	2,232	906	216	-	672	-	-	-	438
DEPARTMENT OF COMMERCE	3,009	1,409	1,110	-	78	-	91	-	321
DEPARTMENT OF DEFENSE	145,712	6,388	137,206	-	1,935	-	183	-	-
DEPT OF HEALTH, EDUC AND WELFARE	44,346	-	356	-	39,773	-	2,441	-	1,776
DEPARTMENT OF THE INTERIOR	671	468	93	-	110	-	-	-	-
DEPARTMENT OF TRANSPORTATION	1,612	-	1,266	-	-	-	50	-	296
ENERGY RESEARCH AND DEVELOP ADMIN	18,176	-	12,404	1,500	4,014	-	-	-	258
ENVIRONMENTAL PROTECTION AGENCY	2,126	-	2,126	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	14,267	100	13,542	-	598	-	27	-	-
NATIONAL SCIENCE FOUNDATION	7,232	-	325	-	5,990	-	888	-	29
MAINE									
TOTAL	15,336	1,770	4,349	-	3,958	-	4,033	-	1,256
DEPARTMENT OF AGRICULTURE	2,278	1,001	-	-	1,212	-	-	-	65
DEPARTMENT OF COMMERCE	1,947	-	682	-	895	-	195	-	175
DEPARTMENT OF DEFENSE	3,467	6	3,416	-	45	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	4,578	-	-	-	605	-	3,428	-	545
DEPARTMENT OF THE INTERIOR	975	763	-	-	205	-	-	-	7
DEPARTMENT OF TRANSPORTATION	337	-	-	-	-	-	-	-	337
ENERGY RESEARCH AND DEVELOP ADMIN	230	-	48	-	182	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	315	-	203	-	-	-	-	-	112
NATIONAL AERONAUTICS AND SPACE ADMIN.	38	-	-	-	-	-	38	-	-
NATIONAL SCIENCE FOUNDATION	1,171	-	-	-	814	-	342	-	15
MASSACHUSETTS									
TOTAL	1,284,945	196,381	619,162	-	222,577	61,945	139,266	37,544	8,070
DEPARTMENT OF AGRICULTURE	1,702	320	5	-	1,370	-	7	-	-
DEPARTMENT OF COMMERCE	11,656	6,384	1,204	-	2,375	-	887	-	806
DEPARTMENT OF DEFENSE	897,477	147,092	538,113	-	60,726	60,705	52,884	36,957	-
DEPT OF HEALTH, EDUC AND WELFARE	178,503	717	18,742	-	82,412	-	70,016	581	6,035
DEPARTMENT OF THE INTERIOR	8,133	1,504	5,505	-	661	463	-	-	-
DEPARTMENT OF TRANSPORTATION	47,889	38,548	7,756	-	970	121	36	-	458
ENERGY RESEARCH AND DEVELOP ADMIN	32,974	832	13,295	-	18,252	-	595	-	-
ENVIRONMENTAL PROTECTION AGENCY	6,033	99	4,378	-	899	-	150	-	507
NATIONAL AERONAUTICS AND SPACE ADMIN.	50,588	885	27,584	-	11,402	-	10,717	-	-
NATIONAL SCIENCE FOUNDATION	49,990	-	2,580	-	43,510	656	2,974	6	264
NEW HAMPSHIRE									
TOTAL	34,637	6,904	17,809	-	8,835	-	519	-	570
DEPARTMENT OF AGRICULTURE	2,094	1,163	-	-	931	-	-	-	-
DEPARTMENT OF COMMERCE	75	36	7	-	-	-	-	-	32
DEPARTMENT OF DEFENSE	22,729	5,319	17,082	-	323	-	5	-	-
DEPT OF HEALTH, EDUC AND WELFARE	5,672	-	-	-	4,681	-	496	-	495
DEPARTMENT OF THE INTERIOR	420	228	82	-	110	-	-	-	-
DEPARTMENT OF TRANSPORTATION	13	-	-	-	-	-	-	-	13
ENERGY RESEARCH AND DEVELOP ADMIN	926	-	421	-	505	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	30	-	-	-	-	-	-	-	30
NATIONAL AERONAUTICS AND SPACE ADMIN.	1,148	148	217	-	783	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,530	10	-	-	1,502	-	18	-	-

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
RHODE ISLAND									
TOTAL	101,641	61,900	19,143	-	16,672	-	2,312	-	1,614
DEPARTMENT OF AGRICULTURE	683	-	-	-	683	-	-	-	-
DEPARTMENT OF COMMERCE	3,082	1,229	104	-	1,572	-	-	-	177
DEPARTMENT OF DEFENSE	78,414	57,805	18,847	-	1,685	-	77	-	-
DEPT OF HEALTH, EDUC AND WELFARE	6,177	-	-	-	3,242	-	1,965	-	970
DEPARTMENT OF THE INTERIOR	405	118	35	-	252	-	-	-	-
DEPARTMENT OF TRANSPORTATION	341	7	13	-	60	-	-	-	261
ENERGY RESEARCH AND DEVELOP ADMIN	770	-	6	-	699	-	65	-	-
ENVIRONMENTAL PROTECTION AGENCY	1,237	-	-	-	1,190	-	-	-	47
NATIONAL AERONAUTICS AND SPACE ADMIN.	3,300	2,741	138	-	421	-	-	-	-
NATIONAL SCIENCE FOUNDATION	7,232	-	-	-	6,868	-	205	-	159
VERMONT									
TOTAL	39,548	1,164	29,016	-	7,817	-	553	-	998
DEPARTMENT OF AGRICULTURE	1,527	549	8	-	970	-	-	-	-
DEPARTMENT OF COMMERCE	180	53	24	-	11	-	-	-	92
DEPARTMENT OF DEFENSE	29,384	325	28,840	-	33	-	186	-	-
DEPT OF HEALTH, EDUC AND WELFARE	7,663	-	-	-	6,533	-	362	-	768
DEPARTMENT OF THE INTERIOR	371	237	19	-	115	-	-	-	-
DEPARTMENT OF TRANSPORTATION	18	-	-	-	-	-	-	-	18
ENERGY RESEARCH AND DEVELOP ADMIN	116	-	94	-	22	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	86	-	-	-	-	-	-	-	86
NATIONAL AERONAUTICS AND SPACE ADMIN.	31	-	31	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	172	-	-	-	133	-	5	-	34
MIDDLE ATLANTIC									
TOTAL	2,437,634	382,630	1,066,497	268,766	437,100	126,490	123,169	-	32,982
DEPARTMENT OF AGRICULTURE	28,481	19,848	8	-	8,506	-	102	-	17
DEPARTMENT OF COMMERCE	17,160	8,069	4,295	-	2,380	-	1,262	-	1,154
DEPARTMENT OF DEFENSE	1,136,002	287,178	716,373	81,014	23,093	20,844	7,500	-	-
DEPT OF HEALTH, EDUC AND WELFARE	412,727	1,153	14,039	-	273,592	1,142	97,978	-	24,823
DEPARTMENT OF THE INTERIOR	65,370	40,184	22,440	-	2,604	123	-	-	19
DEPARTMENT OF TRANSPORTATION	36,370	1,879	28,161	-	1,409	-	-	-	4,921
ENERGY RESEARCH AND DEVELOP ADMIN	496,035	17,073	153,607	187,752	25,515	104,165	7,467	-	456
ENVIRONMENTAL PROTECTION AGENCY	16,009	1,219	9,983	-	2,564	-	1,046	-	1,197
NATIONAL AERONAUTICS AND SPACE ADMIN.	135,123	6,027	115,658	-	11,918	-	1,520	-	-
NATIONAL SCIENCE FOUNDATION	94,357	-	1,933	-	85,519	216	6,294	-	395
NEW JERSEY									
TOTAL	495,615	134,910	287,067	880	32,648	31,419	5,053	-	3,638
DEPARTMENT OF AGRICULTURE	2,019	526	4	-	1,472	-	-	-	17
DEPARTMENT OF COMMERCE	6,430	4,868	631	-	748	-	26	-	157
DEPARTMENT OF DEFENSE	341,528	127,145	212,075	-	2,231	-	77	-	-
DEPT OF HEALTH, EDUC AND WELFARE	24,449	308	6,776	-	12,956	-	3,011	-	1,398
DEPARTMENT OF THE INTERIOR	3,091	1,015	1,683	-	393	-	-	-	-
DEPARTMENT OF TRANSPORTATION	4,140	384	1,469	-	382	-	-	-	1,905
ENERGY RESEARCH AND DEVELOP ADMIN	57,197	40	21,797	880	2,631	31,419	269	-	161
ENVIRONMENTAL PROTECTION AGENCY	5,160	310	4,573	-	215	-	62	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	40,834	314	37,771	-	2,749	-	-	-	-
NATIONAL SCIENCE FOUNDATION	10,767	-	288	-	8,871	-	1,608	-	-
NEW YORK									
TOTAL	1,106,068	87,519	427,538	129,662	276,865	84,321	76,341	-	23,822
DEPARTMENT OF AGRICULTURE	12,356	8,682	2	-	3,570	-	102	-	-
DEPARTMENT OF COMMERCE	8,733	3,114	2,892	-	1,375	-	773	-	579
DEPARTMENT OF DEFENSE	487,111	61,851	345,613	49,856	12,741	10,217	6,833	-	-
DEPT OF HEALTH, EDUC AND WELFARE	268,999	845	4,386	-	180,753	1,142	62,239	-	19,634
DEPARTMENT OF THE INTERIOR	4,962	3,018	1,200	-	744	-	-	-	-
DEPARTMENT OF TRANSPORTATION	15,212	650	11,936	-	509	-	-	-	2,117
ENERGY RESEARCH AND DEVELOP ADMIN	187,922	3,743	15,784	79,806	14,829	72,746	800	-	214
ENVIRONMENTAL PROTECTION AGENCY	4,782	542	1,611	-	1,072	-	489	-	1,068
NATIONAL AERONAUTICS AND SPACE ADMIN.	56,634	5,074	43,179	-	6,986	-	1,395	-	-
NATIONAL SCIENCE FOUNDATION	59,357	-	935	-	54,286	216	3,710	-	210
PENNSYLVANIA									
TOTAL	835,951	160,201	351,892	138,224	127,587	10,750	41,775	-	5,522
DEPARTMENT OF AGRICULTURE	14,106	10,640	2	-	3,464	-	-	-	-
DEPARTMENT OF COMMERCE	1,997	87	772	-	257	-	463	-	418
DEPARTMENT OF DEFENSE	307,363	98,182	158,685	31,158	8,121	10,627	590	-	-
DEPT OF HEALTH, EDUC AND WELFARE	119,279	-	2,877	-	79,883	-	32,728	-	3,791
DEPARTMENT OF THE INTERIOR	57,317	36,151	19,557	-	1,467	123	-	-	19
DEPARTMENT OF TRANSPORTATION	17,018	845	14,756	-	518	-	-	-	899
ENERGY RESEARCH AND DEVELOP ADMIN	250,916	13,290	116,026	107,066	8,055	-	6,398	-	81
ENVIRONMENTAL PROTECTION AGENCY	6,067	367	3,799	-	1,277	-	495	-	129
NATIONAL AERONAUTICS AND SPACE ADMIN.	37,655	639	34,708	-	2,183	-	125	-	-
NATIONAL SCIENCE FOUNDATION	24,233	-	710	-	22,362	-	976	-	185

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
EAST NORTH CENTRAL									
TOTAL	1,437,325	403,722	407,557	6,618	361,765	166,127	76,791	115	14,630
DEPARTMENT OF AGRICULTURE	46,982	32,266	89	-	14,548	-	79	-	-
DEPARTMENT OF COMMERCE	8,839	3,029	1,875	-	2,412	-	570	-	953
DEPARTMENT OF DEFENSE	568,677	228,992	300,330	-	31,256	338	7,761	-	-
DEPT OF HEALTH, EDUC AND WELFARE	253,814	11,700	10,427	-	189,781	322	35,538	-	6,046
DEPARTMENT OF THE INTERIOR	14,737	6,776	5,817	-	1,933	-	-	-	211
DEPARTMENT OF TRANSPORTATION	17,184	2,278	6,753	-	3,427	-	1,477	-	3,249
ENERGY RESEARCH AND DEVELOP ADMIN	257,669	5,490	38,462	6,618	22,310	165,103	19,276	-	410
ENVIRONMENTAL PROTECTION AGENCY	38,972	17,613	5,595	-	6,399	-	6,274	-	3,091
NATIONAL AERONAUTICS AND SPACE ADMIN.	150,476	95,500	37,930	-	14,509	45	2,225	-	267
NATIONAL SCIENCE FOUNDATION	79,975	78	279	-	75,190	319	3,591	115	403
ILLINOIS									
TOTAL	414,017	47,641	48,060	-	121,729	166,127	28,214	-	2,246
DEPARTMENT OF AGRICULTURE	17,062	13,905	21	-	3,136	-	-	-	-
DEPARTMENT OF COMMERCE	1,537	360	485	-	149	-	443	-	100
DEPARTMENT OF DEFENSE	69,056	28,322	23,994	-	14,528	338	1,874	-	-
DEPT OF HEALTH, EDUC AND WELFARE	75,847	-	1,028	-	58,878	322	14,562	-	1,057
DEPARTMENT OF THE INTERIOR	3,043	1,106	1,389	-	374	-	-	-	174
DEPARTMENT OF TRANSPORTATION	4,741	110	2,148	-	1,178	-	656	-	649
ENERGY RESEARCH AND DEVELOP ADMIN	198,167	1,210	15,276	-	9,248	165,103	7,330	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,682	313	214	-	982	-	907	-	266
NATIONAL AERONAUTICS AND SPACE ADMIN.	10,939	2,315	3,441	-	4,542	45	596	-	-
NATIONAL SCIENCE FOUNDATION	30,943	-	64	-	28,714	319	1,846	-	-
INDIANA									
TOTAL	92,344	23,306	21,022	-	45,492	-	1,105	-	1,419
DEPARTMENT OF AGRICULTURE	3,946	1,258	-	-	2,688	-	-	-	-
DEPARTMENT OF COMMERCE	822	27	658	-	10	-	-	-	127
DEPARTMENT OF DEFENSE	35,477	18,369	14,533	-	2,529	-	46	-	-
DEPT OF HEALTH, EDUC AND WELFARE	20,336	-	878	-	17,932	-	674	-	852
DEPARTMENT OF THE INTERIOR	808	406	146	-	256	-	-	-	-
DEPARTMENT OF TRANSPORTATION	962	345	10	-	421	-	-	-	186
ENERGY RESEARCH AND DEVELOP ADMIN	4,124	-	366	-	3,525	-	-	-	233
ENVIRONMENTAL PROTECTION AGENCY	370	-	25	-	345	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	9,588	2,901	4,283	-	2,404	-	-	-	-
NATIONAL SCIENCE FOUNDATION	15,911	-	123	-	15,382	-	385	-	21
MICHIGAN									
TOTAL	221,034	30,355	108,827	-	69,494	-	8,706	-	3,652
DEPARTMENT OF AGRICULTURE	6,052	3,109	7	-	2,936	-	-	-	-
DEPARTMENT OF COMMERCE	4,166	2,525	659	-	779	-	25	-	198
DEPARTMENT OF DEFENSE	106,205	18,821	82,314	-	3,727	-	1,343	-	-
DEPT OF HEALTH, EDUC AND WELFARE	48,783	-	4,476	-	37,683	-	5,017	-	1,607
DEPARTMENT OF THE INTERIOR	3,858	2,195	893	-	768	-	-	-	2
DEPARTMENT OF TRANSPORTATION	1,660	-	951	-	200	-	-	-	509
ENERGY RESEARCH AND DEVELOP ADMIN	19,182	-	15,087	-	4,073	-	22	-	-
ENVIRONMENTAL PROTECTION AGENCY	6,947	3,664	453	-	1,746	-	2	-	1,082
NATIONAL AERONAUTICS AND SPACE ADMIN.	8,448	41	3,956	-	2,928	-	1,523	-	-
NATIONAL SCIENCE FOUNDATION	15,713	-	31	-	14,654	-	774	-	254
OHIO									
TOTAL	627,409	289,788	225,778	6,618	63,587	-	37,573	115	3,950
DEPARTMENT OF AGRICULTURE	6,610	3,457	61	-	3,013	-	79	-	-
DEPARTMENT OF COMMERCE	645	-	72	-	50	-	102	-	421
DEPARTMENT OF DEFENSE	353,587	163,200	177,938	-	7,999	-	4,450	-	-
DEPT OF HEALTH, EDUC AND WELFARE	65,258	11,700	2,605	-	35,481	-	14,408	-	1,064
DEPARTMENT OF THE INTERIOR	4,949	1,466	3,243	-	240	-	-	-	-
DEPARTMENT OF TRANSPORTATION	9,584	1,823	3,549	-	1,535	-	821	-	1,856
ENERGY RESEARCH AND DEVELOP ADMIN	32,700	4,263	7,650	6,618	2,068	-	11,924	-	177
ENVIRONMENTAL PROTECTION AGENCY	26,574	13,636	4,794	-	2,684	-	5,365	-	95
NATIONAL AERONAUTICS AND SPACE ADMIN.	118,615	90,243	25,805	-	2,194	-	106	-	267
NATIONAL SCIENCE FOUNDATION	8,887	-	61	-	8,323	-	318	115	70
WISCONSIN									
TOTAL	82,521	12,632	3,870	-	61,463	-	1,193	-	3,363
DEPARTMENT OF AGRICULTURE	13,312	10,537	-	-	2,775	-	-	-	-
DEPARTMENT OF COMMERCE	1,649	117	1	-	1,424	-	-	-	107
DEPARTMENT OF DEFENSE	4,352	280	1,551	-	2,473	-	48	-	-
DEPT OF HEALTH, EDUC AND WELFARE	43,590	-	1,440	-	39,807	-	877	-	1,466
DEPARTMENT OF THE INTERIOR	2,079	1,603	146	-	295	-	-	-	35
DEPARTMENT OF TRANSPORTATION	237	-	95	-	93	-	-	-	49
ENERGY RESEARCH AND DEVELOP ADMIN	3,496	17	83	-	3,396	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,399	-	109	-	642	-	-	-	1,648
NATIONAL AERONAUTICS AND SPACE ADMIN.	2,886	-	445	-	2,441	-	-	-	-
NATIONAL SCIENCE FOUNDATION	8,521	78	-	-	8,117	-	268	-	58

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
WEST NORTH CENTRAL									
TOTAL	678,223	67,458	399,896	-	158,428	8,475	27,120	-	16,846
DEPARTMENT OF AGRICULTURE	45,237	28,631	-	-	16,595	-	11	-	-
DEPARTMENT OF COMMERCE	1,777	417	87	-	529	-	325	-	419
DEPARTMENT OF DEFENSE	398,711	22,109	372,290	-	3,136	-	1,176	-	-
DEPT OF HEALTH, EDUC AND WELFARE	133,385	372	336	-	104,978	-	23,107	-	4,592
DEPARTMENT OF THE INTERIOR	16,435	12,194	1,328	-	2,824	-	-	-	89
DEPARTMENT OF TRANSPORTATION	8,491	-	2,511	-	682	-	109	-	5,189
ENERGY RESEARCH AND DEVELOP ADMIN	25,465	1,404	9,796	-	5,826	8,375	64	-	-
ENVIRONMENTAL PROTECTION AGENCY	10,755	18	926	-	2,106	-	1,304	-	6,401
NATIONAL AERONAUTICS AND SPACE ADMIN.	22,023	2,313	12,622	-	6,868	100	120	-	-
NATIONAL SCIENCE FOUNDATION	15,944	-	-	-	14,884	-	904	-	156
IOWA									
TOTAL	47,852	8,359	6,308	-	23,046	8,475	234	-	1,430
DEPARTMENT OF AGRICULTURE	10,707	7,433	-	-	3,274	-	-	-	-
DEPARTMENT OF COMMERCE	105	3	48	-	37	-	-	-	17
DEPARTMENT OF DEFENSE	6,219	80	5,544	-	595	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	15,830	372	-	-	14,560	-	184	-	714
DEPARTMENT OF THE INTERIOR	777	344	221	-	212	-	-	-	-
DEPARTMENT OF TRANSPORTATION	520	-	154	-	88	-	-	-	278
ENERGY RESEARCH AND DEVELOP ADMIN	8,717	-	171	-	171	8,375	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	451	-	-	-	30	-	-	-	421
NATIONAL AERONAUTICS AND SPACE ADMIN.	2,738	127	170	-	2,341	100	-	-	-
NATIONAL SCIENCE FOUNDATION	1,788	-	-	-	1,738	-	50	-	-
KANSAS									
TOTAL	31,981	6,334	6,997	-	17,136	-	720	-	794
DEPARTMENT OF AGRICULTURE	3,898	2,084	-	-	1,814	-	-	-	-
DEPARTMENT OF COMMERCE	163	16	-	-	-	-	30	-	117
DEPARTMENT OF DEFENSE	10,163	3,793	6,151	-	209	-	10	-	-
DEPT OF HEALTH, EDUC AND WELFARE	12,355	-	-	-	11,355	-	606	-	394
DEPARTMENT OF THE INTERIOR	872	423	248	-	171	-	-	-	30
DEPARTMENT OF TRANSPORTATION	377	-	124	-	-	-	-	-	253
ENERGY RESEARCH AND DEVELOP ADMIN	510	-	24	-	486	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	26	18	8	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	1,749	-	442	-	1,307	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,868	-	-	-	1,794	-	74	-	-
MINNESOTA									
TOTAL	153,019	12,667	68,967	-	47,545	-	15,614	-	8,226
DEPARTMENT OF AGRICULTURE	7,106	4,383	-	-	2,712	-	11	-	-
DEPARTMENT OF COMMERCE	410	27	24	-	65	-	200	-	94
DEPARTMENT OF DEFENSE	51,641	2,299	48,376	-	919	-	47	-	-
DEPT OF HEALTH, EDUC AND WELFARE	50,259	-	106	-	33,643	-	15,216	-	1,294
DEPARTMENT OF THE INTERIOR	6,912	5,858	339	-	675	-	-	-	40
DEPARTMENT OF TRANSPORTATION	2,366	-	1,505	-	21	-	-	-	840
ENERGY RESEARCH AND DEVELOP ADMIN	9,245	-	6,755	-	2,490	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	7,641	-	878	-	847	-	-	-	5,916
NATIONAL AERONAUTICS AND SPACE ADMIN.	12,897	100	10,984	-	1,777	-	36	-	-
NATIONAL SCIENCE FOUNDATION	4,542	-	-	-	4,396	-	104	-	42
MISSOURI									
TOTAL	403,261	23,766	314,090	-	50,608	-	10,155	-	4,642
DEPARTMENT OF AGRICULTURE	6,188	2,588	-	-	3,600	-	-	-	-
DEPARTMENT OF COMMERCE	764	295	3	-	281	-	95	-	90
DEPARTMENT OF DEFENSE	328,258	15,771	310,253	-	1,115	-	1,119	-	-
DEPT OF HEALTH, EDUC AND WELFARE	44,420	-	230	-	36,649	-	6,704	-	837
DEPARTMENT OF THE INTERIOR	3,789	3,026	346	-	415	-	-	-	2
DEPARTMENT OF TRANSPORTATION	4,756	-	663	-	274	-	109	-	3,710
ENERGY RESEARCH AND DEVELOP ADMIN	2,547	-	1,598	-	885	-	64	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,408	-	40	-	1,064	-	1,304	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	4,328	2,086	957	-	1,201	-	84	-	-
NATIONAL SCIENCE FOUNDATION	5,803	-	-	-	5,124	-	676	-	3
NEBRASKA									
TOTAL	20,992	6,301	1,979	-	11,984	-	222	-	506
DEPARTMENT OF AGRICULTURE	7,512	5,722	-	-	1,790	-	-	-	-
DEPARTMENT OF COMMERCE	41	24	-	-	-	-	-	-	17
DEPARTMENT OF DEFENSE	2,097	136	1,858	-	103	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	8,724	-	-	-	8,056	-	222	-	446
DEPARTMENT OF THE INTERIOR	639	419	44	-	176	-	-	-	-
DEPARTMENT OF TRANSPORTATION	108	-	65	-	-	-	-	-	43
ENERGY RESEARCH AND DEVELOP ADMIN	276	-	-	-	276	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	56	-	-	-	56	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	171	-	12	-	159	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,368	-	-	-	1,368	-	-	-	-

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL(1)	EXTRAMURAL							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
NORTH DAKOTA									
TOTAL	14,309	8,169	333	-	4,962	-	175	-	670
DEPARTMENT OF AGRICULTURE	7,204	5,310	-	-	1,894	-	-	-	-
DEPARTMENT OF COMMERCE	205	52	-	-	111	-	-	-	42
DEPARTMENT OF DEFENSE	125	-	-	-	125	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	984	-	-	-	377	-	175	-	432
DEPARTMENT OF THE INTERIOR	2,220	1,403	130	-	683	-	-	-	4
DEPARTMENT OF TRANSPORTATION	17	-	-	-	-	-	-	-	17
ENERGY RESEARCH AND DEVELOP ADMIN	3,125	1,404	203	-	1,518	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	64	-	-	-	-	-	-	-	64
NATIONAL SCIENCE FOUNDATION	365	-	-	-	254	-	-	-	111
SOUTH DAKOTA									
TOTAL	6,809	1,862	1,222	-	3,147	-	-	-	578
DEPARTMENT OF AGRICULTURE	2,622	1,111	-	-	1,511	-	-	-	-
DEPARTMENT OF COMMERCE	89	-	12	-	35	-	-	-	42
DEPARTMENT OF DEFENSE	208	30	108	-	70	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	813	-	-	-	338	-	-	-	475
DEPARTMENT OF THE INTERIOR	1,226	721	-	-	492	-	-	-	13
DEPARTMENT OF TRANSPORTATION	347	-	-	-	299	-	-	-	48
ENERGY RESEARCH AND DEVELOP ADMIN	1,045	-	1,045	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	109	-	-	-	109	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	140	-	57	-	83	-	-	-	-
NATIONAL SCIENCE FOUNDATION	210	-	-	-	210	-	-	-	-
SOUTH ATLANTIC									
TOTAL	4,224,898	2,473,977	1,165,677	40,717	323,167	77,690	72,919	39,939	30,812
DEPARTMENT OF AGRICULTURE	148,567	126,361	24	-	22,103	-	-	-	79
DEPARTMENT OF COMMERCE	104,677	83,545	9,921	-	4,504	451	2,728	183	3,345
DEPARTMENT OF DEFENSE	1,927,731	1,115,060	689,192	-	19,002	69,332	9,264	25,911	-
DEPT OF HEALTH, EDUC AND WELFARE	805,985	452,656	76,132	35,990	190,758	81	36,269	75	14,024
DEPARTMENT OF THE INTERIOR	52,453	43,776	5,395	-	3,171	-	-	-	111
DEPARTMENT OF TRANSPORTATION	96,437	10,424	61,021	-	2,694	1,425	287	10,999	9,587
ENERGY RESEARCH AND DEVELOP ADMIN	94,793	24,961	42,215	4,727	19,011	-	1,417	1,665	797
ENVIRONMENTAL PROTECTION AGENCY	85,707	59,537	13,990	-	4,565	-	4,775	181	2,659
NATIONAL AERONAUTICS AND SPACE ADMIN.	779,884	493,956	263,977	-	13,375	124	8,278	174	-
NATIONAL SCIENCE FOUNDATION	128,664	63,701	3,810	-	43,984	6,307	9,901	751	210
DELAWARE									
TOTAL	7,898	838	1,054	-	5,459	-	323	-	224
DEPARTMENT OF AGRICULTURE	1,529	517	-	-	1,012	-	-	-	-
DEPARTMENT OF COMMERCE	790	100	55	-	618	-	-	-	17
DEPARTMENT OF DEFENSE	932	-	240	-	692	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	1,494	-	-	-	964	-	323	-	207
DEPARTMENT OF THE INTERIOR	694	221	346	-	127	-	-	-	-
DEPARTMENT OF TRANSPORTATION	267	-	267	-	-	-	-	-	-
ENERGY RESEARCH AND DEVELOP ADMIN	387	-	-	-	387	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	39	-	-	-	39	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	189	-	146	-	43	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,577	-	-	-	1,577	-	-	-	-
DISTRICT OF COLUMBIA									
TOTAL	570,154	417,498	79,731	-	30,132	-	37,527	176	5,090
DEPARTMENT OF AGRICULTURE	49,267	48,957	5	-	305	-	-	-	-
DEPARTMENT OF COMMERCE	13,474	9,656	1,299	-	93	-	2,396	-	30
DEPARTMENT OF DEFENSE	219,379	157,949	55,265	-	2,792	-	3,373	-	-
DEPT OF HEALTH, EDUC AND WELFARE	78,860	37,383	6,581	-	17,596	-	14,925	-	2,375
DEPARTMENT OF THE INTERIOR	11,557	10,411	931	-	190	-	-	-	25
DEPARTMENT OF TRANSPORTATION	20,089	7,222	10,620	-	154	-	209	-	1,884
ENERGY RESEARCH AND DEVELOP ADMIN	13,570	8,810	1,087	-	3,158	-	515	-	-
ENVIRONMENTAL PROTECTION AGENCY	22,650	18,585	912	-	112	-	2,419	-	622
NATIONAL AERONAUTICS AND SPACE ADMIN.	65,924	55,380	2,251	-	1,800	-	6,493	-	-
NATIONAL SCIENCE FOUNDATION	75,384	63,145	780	-	3,932	-	7,197	176	154
FLORIDA									
TOTAL	788,129	422,373	308,074	-	49,008	-	2,520	-	6,154
DEPARTMENT OF AGRICULTURE	11,308	8,746	-	-	2,562	-	-	-	-
DEPARTMENT OF COMMERCE	14,456	10,709	1,478	-	1,686	-	-	-	583
DEPARTMENT OF DEFENSE	455,690	239,999	211,400	-	4,291	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	29,963	127	1,920	-	23,580	-	2,279	-	2,057
DEPARTMENT OF THE INTERIOR	3,626	3,110	64	-	387	-	-	-	65
DEPARTMENT OF TRANSPORTATION	3,495	200	-	-	177	-	-	-	3,118
ENERGY RESEARCH AND DEVELOP ADMIN	7,674	-	5,827	-	1,847	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	3,318	-	1,839	-	1,068	-	80	-	331
NATIONAL AERONAUTICS AND SPACE ADMIN.	247,059	159,482	85,546	-	2,026	-	5	-	-
NATIONAL SCIENCE FOUNDATION	11,540	-	-	-	11,384	-	156	-	-

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL (1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
GEORGIA									
TOTAL	91,940	40,161	10,452	-	38,578	-	797	-	1,952
DEPARTMENT OF AGRICULTURE	18,933	15,316	15	-	3,602	-	-	-	-
DEPARTMENT OF COMMERCE	1,304	8	181	-	881	-	97	-	137
DEPARTMENT OF DEFENSE	11,053	1,682	6,848	-	2,523	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	35,613	12,238	279	-	20,997	-	608	-	1,491
DEPARTMENT OF THE INTERIOR	3,688	3,087	109	-	486	-	-	-	6
DEPARTMENT OF TRANSPORTATION	459	-	96	-	45	-	-	-	318
ENERGY RESEARCH AND DEVELOP ADMIN	4,461	495	368	-	3,598	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,773	1,191	791	-	791	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	9,288	6,144	1,765	-	1,379	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,368	-	-	-	4,276	-	92	-	-
MARYLAND									
TOTAL	1,810,051	1,156,705	450,108	35,990	78,895	71,583	10,435	405	5,930
DEPARTMENT OF AGRICULTURE	44,446	42,500	-	-	1,867	-	-	-	79
DEPARTMENT OF COMMERCE	64,371	60,500	2,286	-	367	451	140	-	627
DEPARTMENT OF DEFENSE	775,918	492,133	208,813	-	3,513	69,302	1,752	405	-
DEPT OF HEALTH, EDUC AND WELFARE	535,964	388,160	47,465	35,990	54,023	81	6,966	-	3,279
DEPARTMENT OF THE INTERIOR	8,199	6,760	1,211	-	228	-	-	-	-
DEPARTMENT OF TRANSPORTATION	43,985	2,043	38,571	-	1,366	1,425	-	-	580
ENERGY RESEARCH AND DEVELOP ADMIN	21,090	7,314	8,243	-	4,914	-	497	-	122
ENVIRONMENTAL PROTECTION AGENCY	21,813	15,035	5,399	-	171	-	-	-	1,208
NATIONAL AERONAUTICS AND SPACE ADMIN.	281,845	141,973	136,314	-	3,269	97	192	-	-
NATIONAL SCIENCE FOUNDATION	12,420	287	1,806	-	9,177	227	888	-	35
NORTH CAROLINA									
TOTAL	139,096	49,672	6,767	-	68,825	-	12,432	-	1,400
DEPARTMENT OF AGRICULTURE	9,454	4,247	4	-	5,203	-	-	-	-
DEPARTMENT OF COMMERCE	2,619	1,494	326	-	606	-	65	-	128
DEPARTMENT OF DEFENSE	15,608	9,573	3,235	-	2,717	-	83	-	-
DEPT OF HEALTH, EDUC AND WELFARE	65,490	10,086	1,292	-	49,124	-	7,837	-	1,151
DEPARTMENT OF THE INTERIOR	1,670	1,163	65	-	435	-	-	-	7
DEPARTMENT OF TRANSPORTATION	540	-	10	-	338	-	78	-	114
ENERGY RESEARCH AND DEVELOP ADMIN	3,133	308	697	-	2,128	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	26,571	22,514	309	-	1,474	-	2,274	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	2,298	287	575	-	568	-	868	-	-
NATIONAL SCIENCE FOUNDATION	7,713	-	254	-	6,232	-	1,227	-	-
SOUTH CAROLINA									
TOTAL	30,665	6,879	5,650	4,727	10,640	-	41	-	2,728
DEPARTMENT OF AGRICULTURE	6,044	3,239	-	-	2,805	-	-	-	-
DEPARTMENT OF COMMERCE	1,020	75	-	-	111	-	-	-	834
DEPARTMENT OF DEFENSE	2,177	1,905	16	-	256	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	6,720	-	-	-	5,275	-	41	-	1,404
DEPARTMENT OF THE INTERIOR	1,759	1,420	-	-	339	-	-	-	-
DEPARTMENT OF TRANSPORTATION	345	-	50	-	99	-	-	-	196
ENERGY RESEARCH AND DEVELOP ADMIN	10,746	240	5,519	4,727	260	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	876	-	-	-	582	-	-	-	294
NATIONAL AERONAUTICS AND SPACE ADMIN.	248	-	65	-	183	-	-	-	-
NATIONAL SCIENCE FOUNDATION	730	-	-	-	730	-	-	-	-
VIRGINIA									
TOTAL	750,592	363,979	297,506	-	36,809	772	7,259	39,358	4,909
DEPARTMENT OF AGRICULTURE	3,740	500	-	-	3,240	-	-	-	-
DEPARTMENT OF COMMERCE	6,518	985	4,286	-	101	-	15	183	948
DEPARTMENT OF DEFENSE	444,908	211,819	201,336	-	2,191	-	4,056	25,506	-
DEPT OF HEALTH, EDUC AND WELFARE	39,189	-	18,589	-	17,822	-	1,725	75	978
DEPARTMENT OF THE INTERIOR	17,469	15,928	1,155	-	378	-	-	-	8
DEPARTMENT OF TRANSPORTATION	26,247	959	11,304	-	235	-	-	10,999	2,750
ENERGY RESEARCH AND DEVELOP ADMIN	22,749	715	17,939	-	2,025	-	405	1,665	-
ENVIRONMENTAL PROTECTION AGENCY	7,535	2,114	4,740	-	294	-	2	181	204
NATIONAL AERONAUTICS AND SPACE ADMIN.	172,867	130,690	37,187	-	4,069	27	720	174	-
NATIONAL SCIENCE FOUNDATION	9,370	269	970	-	6,454	745	336	575	21
WEST VIRGINIA									
TOTAL	36,373	15,872	6,335	-	4,821	5,335	1,585	-	2,425
DEPARTMENT OF AGRICULTURE	3,846	2,339	-	-	1,507	-	-	-	-
DEPARTMENT OF COMMERCE	125	18	10	-	41	-	15	-	41
DEPARTMENT OF DEFENSE	2,066	-	2,039	-	27	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	8,692	4,662	6	-	1,377	-	1,565	-	1,082
DEPARTMENT OF THE INTERIOR	3,791	1,676	1,514	-	601	-	-	-	-
DEPARTMENT OF TRANSPORTATION	1,010	-	103	-	280	-	-	-	627
ENERGY RESEARCH AND DEVELOP ADMIN	10,983	7,079	2,535	-	694	-	-	-	675
ENVIRONMENTAL PROTECTION AGENCY	132	98	-	-	34	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	166	-	128	-	38	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,562	-	-	-	222	5,335	5	-	-

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
EAST SOUTH CENTRAL									
TOTAL	919,506	320,509	361,970	124,458	91,596	2,949	12,236	-	5,788
DEPARTMENT OF AGRICULTURE	30,541	15,122	-	-	15,419	-	-	-	-
DEPARTMENT OF COMMERCE	6,746	4,267	771	150	868	-	121	-	569
DEPARTMENT OF DEFENSE	260,079	119,690	136,933	32	2,625	-	799	-	-
DEPT OF HEALTH, EDUC AND WELFARE	75,400	6,462	339	-	54,635	940	9,809	-	3,215
DEPARTMENT OF THE INTERIOR	7,485	4,948	1,131	-	1,388	-	-	-	18
DEPARTMENT OF TRANSPORTATION	5,759	1,325	2,855	-	280	-	11	-	1,288
ENERGY RESEARCH AND DEVELOP ADMIN	285,211	4,635	149,648	122,149	6,701	2,009	69	-	-
ENVIRONMENTAL PROTECTION AGENCY	14,106	9,007	2,873	-	821	-	841	-	564
NATIONAL AERONAUTICS AND SPACE ADMIN.	225,800	155,042	67,420	-	3,082	-	256	-	-
NATIONAL SCIENCE FOUNDATION	8,379	11	-	2,127	5,777	-	330	-	134
ALABAMA									
TOTAL	374,361	243,246	92,922	-	29,430	-	7,492	-	1,271
DEPARTMENT OF AGRICULTURE	5,848	1,577	-	-	4,271	-	-	-	-
DEPARTMENT OF COMMERCE	1,034	-	527	-	18	-	105	-	384
DEPARTMENT OF DEFENSE	133,139	91,375	40,032	-	996	-	736	-	-
DEPT OF HEALTH, EDUC AND WELFARE	27,609	290	135	-	20,980	-	5,527	-	677
DEPARTMENT OF THE INTERIOR	2,117	1,708	62	-	347	-	-	-	-
DEPARTMENT OF TRANSPORTATION	3,700	640	2,850	-	-	-	-	-	210
ENERGY RESEARCH AND DEVELOP ADMIN	2,534	1,100	1,031	-	403	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	1,316	201	146	-	128	-	841	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	195,953	146,355	48,139	-	1,203	-	256	-	-
NATIONAL SCIENCE FOUNDATION	1,111	-	-	-	1,084	-	27	-	-
KENTUCKY									
TOTAL	50,724	8,279	26,476	-	13,101	-	677	-	2,191
DEPARTMENT OF AGRICULTURE	4,942	989	-	-	3,953	-	-	-	-
DEPARTMENT OF COMMERCE	17	-	-	-	-	-	-	-	17
DEPARTMENT OF DEFENSE	23,111	3,499	19,330	-	278	-	4	-	-
DEPT OF HEALTH, EDUC AND WELFARE	10,035	2,385	42	-	6,394	-	424	-	790
DEPARTMENT OF THE INTERIOR	2,974	1,406	1,053	-	498	-	-	-	17
DEPARTMENT OF TRANSPORTATION	796	-	-	-	-	-	11	-	785
ENERGY RESEARCH AND DEVELOP ADMIN	4,035	-	3,625	-	410	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	3,161	-	2,425	-	192	-	-	-	544
NATIONAL AERONAUTICS AND SPACE ADMIN.	293	-	1	-	292	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,360	-	-	-	1,084	-	238	-	38
MISSISSIPPI									
TOTAL	71,412	41,049	17,705	-	11,464	-	274	-	920
DEPARTMENT OF AGRICULTURE	15,080	11,377	-	-	3,703	-	-	-	-
DEPARTMENT OF COMMERCE	5,151	4,184	194	-	730	-	-	-	43
DEPARTMENT OF DEFENSE	22,805	21,826	152	-	818	-	9	-	-
DEPT OF HEALTH, EDUC AND WELFARE	5,322	-	162	-	4,188	-	256	-	716
DEPARTMENT OF THE INTERIOR	894	775	-	-	119	-	-	-	-
DEPARTMENT OF TRANSPORTATION	730	685	-	-	-	-	-	-	45
ENERGY RESEARCH AND DEVELOP ADMIN	648	27	-	-	621	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	328	-	-	-	308	-	-	-	20
NATIONAL AERONAUTICS AND SPACE ADMIN.	19,908	2,171	17,197	-	540	-	-	-	-
NATIONAL SCIENCE FOUNDATION	546	4	-	-	437	-	9	-	96
TENNESSEE									
TOTAL	423,009	27,935	224,867	124,458	37,601	2,949	3,793	-	1,406
DEPARTMENT OF AGRICULTURE	4,671	1,179	-	-	3,492	-	-	-	-
DEPARTMENT OF COMMERCE	544	83	50	150	120	-	16	-	125
DEPARTMENT OF DEFENSE	81,024	2,990	77,419	32	533	-	50	-	-
DEPT OF HEALTH, EDUC AND WELFARE	32,434	3,787	-	-	23,073	940	3,602	-	1,032
DEPARTMENT OF THE INTERIOR	1,500	1,059	16	-	424	-	-	-	1
DEPARTMENT OF TRANSPORTATION	533	-	5	-	280	-	-	-	248
ENERGY RESEARCH AND DEVELOP ADMIN	277,994	3,508	144,992	122,149	5,267	2,009	69	-	-
ENVIRONMENTAL PROTECTION AGENCY	9,301	8,806	302	-	193	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	9,646	6,516	2,083	-	1,047	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,362	7	-	2,127	3,172	-	56	-	-
WEST SOUTH CENTRAL									
TOTAL	1,019,705	291,987	534,491	-	162,277	71	17,814	-	13,065
DEPARTMENT OF AGRICULTURE	47,681	34,310	15	-	13,342	-	-	-	14
DEPARTMENT OF COMMERCE	9,431	2,768	2,611	-	2,214	-	715	-	1,123
DEPARTMENT OF DEFENSE	347,992	63,836	271,440	-	10,421	-	2,295	-	-
DEPT OF HEALTH, EDUC AND WELFARE	123,503	9,507	1,122	-	96,109	-	10,390	-	6,375
DEPARTMENT OF THE INTERIOR	9,632	5,560	1,440	-	2,399	-	-	-	233
DEPARTMENT OF TRANSPORTATION	23,790	42	14,950	-	2,543	-	1,475	-	4,780
ENERGY RESEARCH AND DEVELOP ADMIN	20,682	5,235	8,339	-	7,108	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	15,358	6,717	4,918	-	1,778	-	1,582	-	363
NATIONAL AERONAUTICS AND SPACE ADMIN.	403,476	164,012	229,597	-	9,214	71	520	-	62
NATIONAL SCIENCE FOUNDATION	18,160	-	59	-	17,149	-	837	-	115

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
ARKANSAS									
TOTAL	26,519	17,203	1,968	-	5,737	-	138	-	1,473
DEPARTMENT OF AGRICULTURE	3,170	476	-	-	2,694	-	-	-	-
DEPARTMENT OF COMMERCE	155	-	-	-	110	-	-	-	45
DEPARTMENT OF DEFENSE	3,616	1,581	1,968	-	67	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	11,775	8,642	-	-	1,785	-	52	-	1,296
DEPARTMENT OF THE INTERIOR	1,355	1,150	-	-	205	-	-	-	-
DEPARTMENT OF TRANSPORTATION	210	-	-	-	30	-	76	-	104
ENERGY RESEARCH AND DEVELOP ADMIN	268	-	-	-	268	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	5,421	5,354	-	-	39	-	-	-	28
NATIONAL AERONAUTICS AND SPACE ADMIN.	182	-	-	-	182	-	-	-	-
NATIONAL SCIENCE FOUNDATION	367	-	-	-	357	-	10	-	-
LOUISIANA									
TOTAL	125,896	25,562	74,601	-	19,296	-	2,444	-	3,993
DEPARTMENT OF AGRICULTURE	22,015	19,272	-	-	2,743	-	-	-	-
DEPARTMENT OF COMMERCE	2,116	217	838	-	569	-	5	-	487
DEPARTMENT OF DEFENSE	3,263	1,673	309	-	1,243	-	38	-	-
DEPT OF HEALTH, EDUC AND WELFARE	15,782	865	46	-	11,957	-	2,002	-	912
DEPARTMENT OF THE INTERIOR	1,222	964	84	-	174	-	-	-	-
DEPARTMENT OF TRANSPORTATION	2,260	-	-	-	20	-	-	-	2,240
ENERGY RESEARCH AND DEVELOP ADMIN	685	-	403	-	282	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	833	-	9	-	327	-	258	-	239
NATIONAL AERONAUTICS AND SPACE ADMIN.	75,846	2,571	72,912	-	333	-	30	-	-
NATIONAL SCIENCE FOUNDATION	1,874	-	-	-	1,648	-	111	-	115
OKLAHOMA									
TOTAL	31,703	10,042	6,086	-	12,183	-	1,767	-	1,625
DEPARTMENT OF AGRICULTURE	4,875	2,452	-	-	2,423	-	-	-	-
DEPARTMENT OF COMMERCE	2,073	1,255	169	-	327	-	122	-	200
DEPARTMENT OF DEFENSE	4,345	1,402	1,464	-	1,428	-	51	-	-
DEPT OF HEALTH, EDUC AND WELFARE	6,138	-	-	-	4,077	-	1,357	-	704
DEPARTMENT OF THE INTERIOR	1,098	303	347	-	413	-	-	-	35
DEPARTMENT OF TRANSPORTATION	624	-	-	-	4	-	-	-	620
ENERGY RESEARCH AND DEVELOP ADMIN	7,756	4,585	2,449	-	722	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	1,471	-	1,242	-	163	-	-	-	66
NATIONAL AERONAUTICS AND SPACE ADMIN.	655	45	415	-	195	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,668	-	-	-	2,431	-	237	-	-
TEXAS									
TOTAL	835,587	239,180	451,836	-	125,061	71	13,465	-	5,974
DEPARTMENT OF AGRICULTURE	17,621	12,110	15	-	5,482	-	-	-	14
DEPARTMENT OF COMMERCE	5,087	1,296	1,604	-	1,208	-	588	-	391
DEPARTMENT OF DEFENSE	336,768	59,180	267,699	-	7,683	-	2,206	-	-
DEPT OF HEALTH, EDUC AND WELFARE	89,808	-	1,076	-	78,290	-	6,979	-	3,463
DEPARTMENT OF THE INTERIOR	5,957	3,143	1,009	-	1,607	-	-	-	198
DEPARTMENT OF TRANSPORTATION	20,696	42	14,950	-	2,489	-	1,399	-	1,816
ENERGY RESEARCH AND DEVELOP ADMIN	11,973	650	5,487	-	5,836	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	7,633	1,363	3,667	-	1,249	-	1,324	-	30
NATIONAL AERONAUTICS AND SPACE ADMIN.	326,793	161,396	156,270	-	8,504	71	490	-	62
NATIONAL SCIENCE FOUNDATION	13,251	-	59	-	12,713	-	479	-	-
MOUNTAIN									
TOTAL	1,392,771	393,135	379,677	205,673	133,719	242,904	23,657	-	14,006
DEPARTMENT OF AGRICULTURE	40,740	29,686	110	-	10,926	-	18	-	-
DEPARTMENT OF COMMERCE	20,489	16,259	1,093	-	1,850	207	146	-	934
DEPARTMENT OF DEFENSE	375,266	240,788	115,522	684	15,278	1,906	1,088	-	-
DEPT OF HEALTH, EDUC AND WELFARE	80,914	7,467	1,032	-	50,824	-	10,707	-	10,883
DEPARTMENT OF THE INTERIOR	68,573	53,495	8,914	-	5,954	-	-	-	210
DEPARTMENT OF TRANSPORTATION	17,262	7,335	8,226	-	642	-	4	-	1,055
ENERGY RESEARCH AND DEVELOP ADMIN	601,464	13,398	155,383	204,989	7,766	210,577	9,351	-	-
ENVIRONMENTAL PROTECTION AGENCY	17,432	9,857	2,676	-	4,282	-	99	-	518
NATIONAL AERONAUTICS AND SPACE ADMIN.	113,404	14,615	86,381	-	11,798	32	439	-	139
NATIONAL SCIENCE FOUNDATION	57,227	235	339	-	24,399	30,182	1,805	-	267
ARIZONA									
TOTAL	121,828	36,199	55,891	-	20,085	7,498	900	-	1,255
DEPARTMENT OF AGRICULTURE	8,424	6,987	1	-	1,436	-	-	-	-
DEPARTMENT OF COMMERCE	468	-	4	-	192	-	90	-	182
DEPARTMENT OF DEFENSE	64,685	22,955	39,184	-	2,545	-	1	-	-
DEPT OF HEALTH, EDUC AND WELFARE	12,066	2,840	180	-	7,902	-	421	-	723
DEPARTMENT OF THE INTERIOR	4,723	2,889	1,102	-	732	-	-	-	-
DEPARTMENT OF TRANSPORTATION	570	-	315	-	-	-	-	-	255
ENERGY RESEARCH AND DEVELOP ADMIN	4,239	-	3,741	-	498	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	408	-	-	-	343	-	-	-	65
NATIONAL AERONAUTICS AND SPACE ADMIN.	14,657	528	11,364	-	2,485	-	280	-	-
NATIONAL SCIENCE FOUNDATION	11,588	-	-	-	3,952	7,498	108	-	30

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
COLORADO									
TOTAL	247,133	64,671	94,496	-	49,407	22,915	7,864	-	7,780
DEPARTMENT OF AGRICULTURE	8,527	6,346	6	-	2,175	-	-	-	-
DEPARTMENT OF COMMERCE	18,486	16,221	887	-	1,154	207	-	-	17
DEPARTMENT OF DEFENSE	32,436	2,922	26,532	-	2,623	-	359	-	-
DEPT OF HEALTH, EDUC AND WELFARE	34,798	1,144	566	-	19,916	-	6,147	-	7,025
DEPARTMENT OF THE INTERIOR	30,436	24,267	4,602	-	1,567	-	-	-	-
DEPARTMENT OF TRANSPORTATION	13,482	7,070	6,028	-	68	-	-	-	316
ENERGY RESEARCH AND DEVELOP ADMIN	20,781	50	17,060	-	3,522	-	149	-	-
ENVIRONMENTAL PROTECTION AGENCY	5,232	830	2,098	-	2,258	-	-	-	46
NATIONAL AERONAUTICS AND SPACE ADMIN.	47,255	5,586	36,555	-	4,852	32	91	-	139
NATIONAL SCIENCE FOUNDATION	35,700	235	162	-	11,272	22,676	1,118	-	237
IDAHO									
TOTAL	71,697	7,041	3,634	35,427	2,919	21,204	483	-	989
DEPARTMENT OF AGRICULTURE	5,500	3,797	-	-	1,703	-	-	-	-
DEPARTMENT OF COMMERCE	250	5	-	-	105	-	-	-	140
DEPARTMENT OF DEFENSE	-	-	-	-	-	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	1,675	-	-	-	366	-	483	-	826
DEPARTMENT OF THE INTERIOR	3,305	2,639	176	-	490	-	-	-	-
DEPARTMENT OF TRANSPORTATION	43	-	-	-	20	-	-	-	23
ENERGY RESEARCH AND DEVELOP ADMIN	60,634	566	3,435	35,427	2	21,204	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	110	-	10	-	100	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	47	34	13	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	133	-	-	-	133	-	-	-	-
MONTANA									
TOTAL	27,602	12,879	5,891	-	4,829	-	2,748	-	1,255
DEPARTMENT OF AGRICULTURE	8,609	7,048	14	-	1,547	-	-	-	-
DEPARTMENT OF COMMERCE	580	-	143	-	90	-	-	-	347
DEPARTMENT OF DEFENSE	1,796	-	1,645	-	104	-	47	-	-
DEPT OF HEALTH, EDUC AND WELFARE	7,108	3,042	-	-	856	-	2,701	-	509
DEPARTMENT OF THE INTERIOR	4,767	2,789	1,046	-	743	-	-	-	189
DEPARTMENT OF TRANSPORTATION	47	-	-	-	-	-	-	-	47
ENERGY RESEARCH AND DEVELOP ADMIN	3,164	-	3,043	-	121	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	1,013	-	-	-	850	-	-	-	163
NATIONAL AERONAUTICS AND SPACE ADMIN.	16	-	-	-	16	-	-	-	-
NATIONAL SCIENCE FOUNDATION	502	-	-	-	502	-	-	-	-
NEVADA									
TOTAL	178,959	38,236	123,872	3,447	2,874	4,464	5,764	-	302
DEPARTMENT OF AGRICULTURE	1,154	413	-	-	741	-	-	-	-
DEPARTMENT OF COMMERCE	85	19	49	-	-	-	-	-	17
DEPARTMENT OF DEFENSE	18,677	17,927	468	-	282	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	488	-	-	-	152	-	130	-	206
DEPARTMENT OF THE INTERIOR	5,783	5,111	191	-	481	-	-	-	-
DEPARTMENT OF TRANSPORTATION	102	-	58	-	-	-	-	-	44
ENERGY RESEARCH AND DEVELOP ADMIN	142,088	5,871	122,467	3,447	439	4,464	5,400	-	-
ENVIRONMENTAL PROTECTION AGENCY	8,976	8,895	-	-	46	-	-	-	35
NATIONAL AERONAUTICS AND SPACE ADMIN.	601	-	462	-	139	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,005	-	177	-	594	-	234	-	-
NEW MEXICO									
TOTAL	625,766	195,291	52,525	166,799	18,850	186,823	4,520	-	958
DEPARTMENT OF AGRICULTURE	2,364	1,194	89	-	1,081	-	-	-	-
DEPARTMENT OF COMMERCE	235	10	2	-	150	-	56	-	17
DEPARTMENT OF DEFENSE	231,292	182,225	40,052	684	5,816	1,906	609	-	-
DEPT OF HEALTH, EDUC AND WELFARE	8,225	384	-	-	6,847	-	90	-	904
DEPARTMENT OF THE INTERIOR	3,574	2,796	245	-	533	-	-	-	-
DEPARTMENT OF TRANSPORTATION	2,346	265	1,760	-	299	-	-	-	22
ENERGY RESEARCH AND DEVELOP ADMIN	359,852	150	4,552	166,115	398	184,909	3,728	-	-
ENVIRONMENTAL PROTECTION AGENCY	205	-	-	-	190	-	-	-	15
NATIONAL AERONAUTICS AND SPACE ADMIN.	16,134	8,267	5,825	-	2,023	-	19	-	-
NATIONAL SCIENCE FOUNDATION	1,539	-	-	-	1,513	8	18	-	-
UTAH									
TOTAL	100,700	24,894	43,327	-	30,029	-	1,364	-	1,086
DEPARTMENT OF AGRICULTURE	4,342	3,086	-	-	1,238	-	18	-	-
DEPARTMENT OF COMMERCE	355	-	8	-	150	-	-	-	197
DEPARTMENT OF DEFENSE	26,237	14,759	7,641	-	3,765	-	72	-	-
DEPT OF HEALTH, EDUC AND WELFARE	15,992	57	287	-	14,525	-	735	-	388
DEPARTMENT OF THE INTERIOR	9,313	6,660	1,511	-	1,121	-	-	-	21
DEPARTMENT OF TRANSPORTATION	540	-	65	-	180	-	4	-	291
ENERGY RESEARCH AND DEVELOP ADMIN	3,748	-	1,085	-	2,589	-	74	-	-
ENVIRONMENTAL PROTECTION AGENCY	1,448	132	568	-	460	-	99	-	189
NATIONAL AERONAUTICS AND SPACE ADMIN.	33,163	200	32,162	-	766	-	35	-	-
NATIONAL SCIENCE FOUNDATION	5,562	-	-	-	5,235	-	327	-	-

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WYOMING									
TOTAL	19,086	13,924	41	-	4,726	-	14	-	381
DEPARTMENT OF AGRICULTURE	1,820	815	-	-	1,005	-	-	-	-
DEPARTMENT OF COMMERCE	30	4	-	-	9	-	-	-	17
DEPARTMENT OF DEFENSE	143	-	-	-	143	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	562	-	-	-	260		-	-	302
DEPARTMENT OF THE INTERIOR	6,672	6,344	41	-	287		-	-	-
DEPARTMENT OF TRANSPORTATION	132	-	-	-	75	-	-	-	57
ENERGY RESEARCH AND DEVELOP ADMIN	6,958	6,761	-	-	197	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	40	-	-	-	35	-	-	-	5
NATIONAL AERONAUTICS AND SPACE ADMIN.	1,531	-	-	-	1,517	-	14	-	-
NATIONAL SCIENCE FOUNDATION	1,198	-	-	-	1,198	-	-	-	-
PACIFIC									
TOTAL	6,363,810	863,147	4,189,402	147,472	509,842	355,855	123,434	129,433	45,225
DEPARTMENT OF AGRICULTURE	51,141	41,258	49	-	9,503	-	168	68	95
DEPARTMENT OF COMMERCE	39,095	21,536	4,350	-	8,195	-	1,423	199	3,392
DEPARTMENT OF DEFENSE	3,444,160	523,265	2,749,605	-	60,631	3,252	25,117	82,290	-
DEPT OF HEALTH, EDUC AND WELFARE	378,478	3,120	10,664	-	247,427	3,362	82,556	3,992	27,357
DEPARTMENT OF THE INTERIOR	63,890	45,813	12,968	-	4,483	75	-	378	173
DEPARTMENT OF TRANSPORTATION	38,850	1,275	25,198	-	2,093	808	175	-	9,301
ENERGY RESEARCH AND DEVELOP ADMIN	655,480	633	174,502	147,472	27,153	264,152	2,578	37,410	1,580
ENVIRONMENTAL PROTECTION AGENCY	47,079	18,928	19,065	-	4,723	-	1,431	732	2,200
NATIONAL AERONAUTICS AND SPACE ADMIN.	1,518,859	206,494	1,186,957	-	34,918	83,253	4,306	2,898	33
NATIONAL SCIENCE FOUNDATION	126,778	825	6,044	-	110,716	953	5,680	1,466	1,094
ALASKA									
TOTAL	35,420	22,636	1,526	-	8,480	-	783	-	1,995
DEPARTMENT OF AGRICULTURE	2,623	1,964	10	-	649	-	-	-	-
DEPARTMENT OF COMMERCE	7,233	5,345	309	-	424	-	-	-	1,155
DEPARTMENT OF DEFENSE	7,733	3,863	745	-	2,652	-	473	-	-
DEPT OF HEALTH, EDUC AND WELFARE	1,366	115	-	-	645	-	175	-	431
DEPARTMENT OF THE INTERIOR	10,513	10,108	11	-	394	-	-	-	-
DEPARTMENT OF TRANSPORTATION	599	-	280	-	160	-	-	-	159
ENERGY RESEARCH AND DEVELOP ADMIN	611	-	-	-	361	-	-	-	250
ENVIRONMENTAL PROTECTION AGENCY	80	45	35	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	1,480	1,196	136	-	148	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,182	-	-	-	3,047	-	135	-	-
CALIFORNIA									
TOTAL	5,493,728	765,879	3,710,905	54,245	383,002	355,855	100,725	93,206	29,911
DEPARTMENT OF AGRICULTURE	28,204	24,450	38	-	3,553	-	-	68	95
DEPARTMENT OF COMMERCE	12,590	4,401	2,980	-	2,905	-	1,199	99	1,006
DEPARTMENT OF DEFENSE	2,999,703	506,515	2,334,453	-	49,001	3,252	24,324	82,158	-
DEPT OF HEALTH, EDUC AND WELFARE	286,891	2,276	9,965	-	189,606	3,362	62,380	2,321	16,981
DEPARTMENT OF THE INTERIOR	29,597	19,939	7,199	-	2,327	75	-	-	57
DEPARTMENT OF TRANSPORTATION	24,364	1,275	12,446	-	1,513	808	35	-	8,287
ENERGY RESEARCH AND DEVELOP ADMIN	505,427	609	157,742	54,245	21,219	264,152	2,242	3,958	1,260
ENVIRONMENTAL PROTECTION AGENCY	26,035	816	18,837	-	2,876	-	1,371	732	1,403
NATIONAL AERONAUTICS AND SPACE ADMIN.	1,481,365	204,773	1,161,322	-	25,096	83,253	4,225	2,663	33
NATIONAL SCIENCE FOUNDATION	99,552	825	5,923	-	84,906	953	4,949	1,207	789
HAWAII									
TOTAL	45,507	13,914	7,476	-	22,177	-	1,220	-	720
DEPARTMENT OF AGRICULTURE	2,616	1,510	1	-	937	-	168	-	-
DEPARTMENT OF COMMERCE	3,089	1,573	106	-	1,233	-	60	-	117
DEPARTMENT OF DEFENSE	17,903	8,668	7,100	-	2,135	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	7,021	503	-	-	5,198	-	913	-	407
DEPARTMENT OF THE INTERIOR	1,601	1,355	20	-	226	-	-	-	-
DEPARTMENT OF TRANSPORTATION	69	-	18	-	-	-	-	-	51
ENERGY RESEARCH AND DEVELOP ADMIN	1,437	-	82	-	1,285	-	-	-	70
ENVIRONMENTAL PROTECTION AGENCY	430	-	-	-	380	-	-	-	50
NATIONAL AERONAUTICS AND SPACE ADMIN.	8,169	305	149	-	7,715	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,172	-	-	-	3,068	-	79	-	25
OREGON									
TOTAL	84,052	36,194	3,769	-	32,086	-	10,221	-	1,782
DEPARTMENT OF AGRICULTURE	10,338	8,243	-	-	2,095	-	-	-	-
DEPARTMENT OF COMMERCE	4,963	2,566	39	-	1,967	-	-	-	391
DEPARTMENT OF DEFENSE	2,451	25	10	-	2,342	-	74	-	-
DEPT OF HEALTH, EDUC AND WELFARE	27,310	-	699	-	15,706	-	9,992	-	913
DEPARTMENT OF THE INTERIOR	10,372	7,992	1,817	-	539	-	-	-	24
DEPARTMENT OF TRANSPORTATION	724	-	363	-	-	-	-	-	361
ENERGY RESEARCH AND DEVELOP ADMIN	1,530	-	72	-	1,458	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	17,874	17,300	85	-	396	-	-	-	93
NATIONAL AERONAUTICS AND SPACE ADMIN.	1,457	68	684	-	705		-	-	-
NATIONAL SCIENCE FOUNDATION	7,033	-	-	-	6,878	-	155	-	-

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TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WASHINGTON									
TOTAL	705,103	24,524	465,726	93,227	64,097	-	10,485	36,227	10,817
DEPARTMENT OF AGRICULTURE	7,360	5,091	-	-	2,269	-	-	-	-
DEPARTMENT OF COMMERCE	11,220	7,651	916	-	1,666	-	164	100	723
DEPARTMENT OF DEFENSE	416,370	4,194	407,297	-	4,501	-	246	132	-
DEPT OF HEALTH, EDUC AND WELFARE	55,890	226	-	-	36,272	-	9,096	1,671	8,625
DEPARTMENT OF THE INTERIOR	11,807	6,419	3,921	-	997	-	-	378	92
DEPARTMENT OF TRANSPORTATION	13,094	-	12,091	-	420	-	140	-	443
ENERGY RESEARCH AND DEVELOP ADMIN	146,475	24	16,606	93,227	2,830	-	336	33,452	-
ENVIRONMENTAL PROTECTION AGENCY	2,660	767	108	-	1,071	-	60	-	654
NATIONAL AERONAUTICS AND SPACE ADMIN.	26,388	152	24,666	-	1,254	-	81	235	-
NATIONAL SCIENCE FOUNDATION	13,839	-	121	-	12,817	-	362	259	280
OUTLYING AREAS									
TOTAL	22,233	8,217	1,141	-	7,281	3,776	70	-	1,748
DEPARTMENT OF AGRICULTURE	4,302	1,436	-	-	2,866	-	-	-	-
DEPARTMENT OF COMMERCE	640	18	71	-	-	-	-	-	551
DEPARTMENT OF DEFENSE	3,370	2,348	952	-	-	-	70	-	-
DEPT OF HEALTH, EDUC AND WELFARE	5,420	251	77	-	4,027	-	-	-	1,065
DEPARTMENT OF THE INTERIOR	4,302	4,112	-	-	190	-	-	-	-
DEPARTMENT OF TRANSPORTATION	51	-	-	-	-	-	-	-	51
ENERGY RESEARCH AND DEVELOP ADMIN	147	-	41	-	45	-	-	-	61
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	52	52	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,949	-	-	-	153	3,776	-	-	20
OFFICES ABROAD									
TOTAL	43,039	29,512	2,341	-	-	3,037	7,689	460	-
DEPARTMENT OF AGRICULTURE	95	95	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE	1	-	1	-	-	-	-	-	-
DEPARTMENT OF DEFENSE	5,428	2,981	1,987	-	-	-	-	460	-
DEPT OF HEALTH, EDUC AND WELFARE	-	-	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR	-	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION	-	-	-	-	-	-	-	-	-
ENERGY RESEARCH AND DEVELOP ADMIN	7,619	-	-	-	-	-	7,619	-	-
ENVIRONMENTAL PROTECTION AGENCY	423	-	253	-	-	-	70	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN.	26,436	26,436	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,037	-	-	-	-	3,037	-	-	-

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-104. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND PERFORMER SUPPORTED: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL						
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITU-TIONS	FFRDCS ADMIN BY NONPROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES........	799,196	294,003	68,565	197,794	35,178	188,156	10,914	4,586	-
NEW ENGLAND..............	22,369	10,113	1,635	380	3,627	-	6,614	-	-
CONNECTICUT..............	1,934	331	1,010	380	213	-	-	-	-
MAINE....................	15	-	-	-	15	-	-	-	-
MASSACHUSETTS............	13,975	3,656	525	-	3,180	-	6,614	-	-
NEW HAMPSHIRE............	1,992	1,892	100	-	-	-	-	-	-
RHODE ISLAND.............	4,453	4,234	-	-	219	-	-	-	-
VERMONT..................	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC..........	70,635	9,600	7,712	13,962	11,748	27,531	82	-	-
NEW JERSEY...............	22,114	4,210	248	-	259	17,397	-	-	-
NEW YORK.................	37,508	2,644	6,524	7,390	10,734	10,134	82	-	-
PENNSYLVANIA.............	11,013	2,746	940	6,572	755	-	-	-	-
EAST NORTH CENTRAL.......	66,514	25,235	1,559	680	4,997	34,043	-	-	-
ILLINOIS.................	45,202	8,689	501	-	1,969	34,043	-	-	-
INDIANA..................	754	125	-	-	629	-	-	-	-
MICHIGAN.................	2,011	1,248	-	-	763	-	-	-	-
OHIO.....................	13,644	11,680	1,058	680	226	-	-	-	-
WISCONSIN................	4,903	3,493	-	-	1,410	-	-	-	-
WEST NORTH CENTRAL.......	3,603	2,292	10	-	293	1,008	-	-	-
IOWA.....................	1,118	72	-	-	44	1,002	-	-	-
KANSAS...................	102	96	-	-	-	6	-	-	-
MINNESOTA................	466	344	10	-	112	-	-	-	-
MISSOURI.................	466	400	-	-	66	-	-	-	-
NEBRASKA.................	964	893	-	-	71	-	-	-	-
NORTH DAKOTA.............	487	487	-	-	-		-	-	-
SOUTH DAKOTA.............	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC...........	166,899	143,778	2,266	1,225	3,186	16,215	169	60	-
DELAWARE.................	-	-	-	-	-	-	-	-	-
DISTRICT OF COLUMBIA.....	21,385	21,225	-	-	160	-	-	-	-
FLORIDA..................	76,294	76,019	23	-	252	-	-	-	-
GEORGIA..................	201	99	-	-	102	-	-	-	-
MARYLAND.................	36,700	34,117	648	-	1,766	-	169	-	-
NORTH CAROLINA...........	644	480	-	-	164	-	-	-	-
SOUTH CAROLINA...........	3,338	518	1,000	1,225	595	-	-	-	-
VIRGINIA.................	11,602	10,800	595	-	147	-	-	60	-
WEST VIRGINIA............	16,735	520	-	-	-	16,215	-	-	-
EAST SOUTH CENTRAL.......	76,945	17,943	18,986	38,935	524	557	-	-	-
ALABAMA..................	12,286	12,286	-	-	-	-	-	-	-
KENTUCKY.................	-	-	-	-	-	-	-	-	-
MISSISSIPPI..............	4,129	3,979	150	-	-	-	-	-	-
TENNESSEE................	60,530	1,678	18,836	38,935	524	557	-	-	-
WEST SOUTH CENTRAL.......	11,095	10,518	225	-	352	-	-	-	-
ARKANSAS.................	877	877	-	-	-	-	-	-	-
LOUISIANA................	2,254	2,254	-	-	-	-	-	-	-
OKLAHOMA.................	156	156	-	-	-	-	-	-	-
TEXAS....................	7,808	7,231	225	-	352	-	-	-	-
MOUNTAIN.................	123,758	12,671	21,872	32,118	2,326	53,963	608	-	-
ARIZONA..................	2,699	64	260	-	1,473	902	-	-	-
COLORADO.................	11,971	4,251	1,211	-	570	5,939	-	-	-
IDAHO....................	19,664	74	8,711	10,879	-	-	-	-	-
MONTANA..................	126	126	-	-	-	-	-	-	-
NEVADA...................	11,709	922	10,787	-	-	-	-	-	-
NEW MEXICO...............	76,638	6,825	837	21,239	7	47,122	608	-	-
UTAH.....................	763	442	66	-	255	-	-	-	-
WYOMING..................	188	167	-	-	21	-	-	-	-
PACIFIC..................	256,072	61,038	14,300	110,494	8,122	54,151	3,441	4,526	-
ALASKA...................	817	332	-	-	485	-	-	-	-
CALIFORNIA...............	147,280	58,592	14,003	14,632	4,363	54,151	1,464	75	-
HAWAII...................	2,812	12	-	-	2,800	-	-	-	-
OREGON...................	2,025	1,855	-	-	170	-	-	-	-
WASHINGTON...............	103,138	247	297	95,862	304	-	1,977	4,451	-
OUTLYING AREAS...........	275	-	-	-	-	275	-	-	-
OFFICES ABROAD...........	1,031	615	-	-	3	413	-	-	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 95 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-105. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND AGENCY: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF HEALTH, EDUC & WELFARE	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENERGY RESEARCH & DEVELOP ADMIN	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL, ALL STATES........	799,156	16,142	6,631	143,423	33,102	5,914	14,200	438,821	6,256	82,130	52,577
NEW ENGLAND.............	22,369	14	10	6,418	6,889	-	760	2,477	3,904	400	1,497
CONNECTICUT.............	1,934	14	-	317	-	-	760	748	-	-	95
MAINE...................	15	-	-	-	-	-	-	-	-	-	15
MASSACHUSETTS...........	13,975	-	10	3,779	6,889	-	-	1,729	-	400	1,168
NEW HAMPSHIRE...........	1,992	-	-	1,992	-	-	-	-	-	-	-
RHODE ISLAND............	4,453	-	-	330	-	-	-	-	3,904	-	219
VERMONT.................	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.........	70,635	371	2,088	4,400	4,718	2,120	1,395	52,309	92	1,200	1,942
NEW JERSEY..............	22,114	-	58	2,838	-	-	1,245	17,462	77	200	234
NEW YORK................	37,508	281	2,030	976	4,718	-	-	27,284	15	1,000	1,204
PENNSYLVANIA............	11,013	90	-	586	-	2,120	150	7,563	-	-	504
EAST NORTH CENTRAL......	66,514	5,110	-	12,456	2,608	3,710	-	37,211	914	2,700	1,805
ILLINOIS................	45,202	4,810	-	3,224	1,105	-	-	35,079	305	-	679
INDIANA.................	754	-	-	130	-	-	-	208	-	-	416
MICHIGAN................	2,011	22	-	-	256	360	-	186	66	800	321
OHIO....................	13,644	135	-	9,102	-	-	-	1,738	543	1,900	226
WISCONSIN...............	4,903	143	-	-	1,247	3,350	-	-	-	-	163
WEST NORTH CENTRAL......	3,603	1,231	-	19	-	-	-	1,008	52	1,000	293
IOWA....................	1,118	72	-	-	-	-	-	1,002	-	-	44
KANSAS..................	102	96	-	-	-	-	-	6	-	-	-
MINNESOTA...............	466	92	-	10	-	-	-	-	52	200	112
MISSOURI................	466	-	-	-	-	-	-	-	-	400	66
NEBRASKA................	964	493	-	-	-	-	-	-	-	400	71
NORTH DAKOTA............	487	478	-	9	-	-	-	-	-	-	-
SOUTH DAKOTA............	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC..........	166,895	5,356	445	51,628	13,382	4	1,700	4,132	924	54,300	35,028
DELAWARE................	-	-	-	-	-	-	-	-	-	-	-
DISTRICT OF COLUMBIA....	21,385	203	-	1,939	-	-	-	443	-	800	18,000
FLORIDA.................	76,294	129	23	30,310	-	-	-	-	880	44,700	252
GEORGIA.................	201	51	-	-	-	4	-	-	44	-	102
MARYLAND................	36,700	3,993	362	15,179	13,151	-	805	717	-	2,300	193
NORTH CAROLINA..........	644	49	-	-	231	-	-	-	-	200	164
SOUTH CAROLINA..........	3,338	511	-	-	-	-	-	2,827	-	-	-
VIRGINIA................	11,602	-	60	4,200	-	-	895	45	-	6,300	102
WEST VIRGINIA...........	16,735	420	-	-	-	-	-	100	-	-	16,215
EAST SOUTH CENTRAL......	76,945	397	-	5,264	-	3	-	68,991	46	2,200	44
ALABAMA.................	12,286	240	-	-	-	-	-	10,000	46	2,000	-
KENTUCKY................	-	-	-	-	-	-	-	-	-	-	-
MISSISSIPPI.............	4,129	157	-	3,772	-	-	-	-	-	200	-
TENNESSEE...............	60,530	-	-	1,492	-	3	-	58,991	-	-	44
WEST SOUTH CENTRAL......	11,095	1,087	-	1,188	877	-	-	110	1	7,600	232
ARKANSAS................	877	-	-	-	877	-	-		-	-	-
LOUISIANA...............	2,254	854	-	-	-	-	-	-	-	1,400	-
OKLAHOMA................	156	150	-	5	-	-	-	-	1	-	-
TEXAS...................	7,808	83	-	1,183	-	-	-	110	-	6,200	232
MOUNTAIN................	123,758	511	134	9,260	16	21	4,085	100,767	-	-	8,964
ARIZONA.................	2,699	60	-	4	-	-	-	260	-	-	2,375
COLORADO................	11,971	32	134	-	-	-	4,085	1,211	-	-	6,509
IDAHO...................	19,664	38	-	-	-	-	-	19,626	-	-	-
MONTANA.................	126	110	-	-	16	-	-	-	-	-	-
NEVADA..................	11,709	-	-	1,239	-	-	-	10,470	-	-	-
NEW MEXICO..............	76,638	109	-	7,597	-	-	-	68,932	-	-	-
UTAH....................	763	93	-	420	-	-	-	170	-	-	80
WYOMING.................	188	69	-	-	-	21	-	98	-	-	-
PACIFIC.................	256,072	2,065	3,954	52,575	4,612	56	6,260	171,816	323	12,330	2,081
ALASKA..................	817	-	-	516	-	-	-	-	45	200	56
CALIFORNIA..............	147,280	300	3,954	52,037	-	-	6,260	71,158	-	12,130	1,441
HAWAII..................	2,812	12	-	-	2,635	-	-	-	-	-	165
OREGON..................	2,025	1,697	-	-	-	-	-	-	158	-	170
WASHINGTON..............	103,138	56	-	22	1,977	56	-	100,658	120	-	249
OUTLYING AREAS..........	275	-	-	-	-	-	-	-	-	-	275
OFFICES ABROAD..........	1,031	-	-	215	-	-	-	-	-	400	416

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 95 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1976.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976			ESTIMATES					
				1977			1978		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	5,709,960	3,058,278	53.6%	6,467,000	3,364,243	52.0%	6,547,636	3,435,543	52.5%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	332,952	234,926	70.6	381,174	248,529	65.2	398,390	259,185	65.1
AGRICULTURAL RESEARCH SERVICE	229,155	161,325	70.4	262,739	164,475	62.6	272,463	170,562	62.6
COOPERATIVE STATE RESEARCH SERVICE	3,021	3,021	100.0	4,906	4,906	100.0	5,170	5,170	100.0
ECONOMIC RESEARCH SERVICE	23,252	17,850	76.8	25,922	19,246	74.2	28,053	20,046	71.5
FARMER COOPERATIVE SERVICE	1,204	1,023	85.0	1,330	1,131	85.0	1,574	1,338	85.0
FOREST SERVICE	74,612	50,737	68.0	84,337	57,349	68.0	89,190	60,647	68.0
NATIONAL AGRICULTURAL LIBRARY	3	3	100.0	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	1,705	967	56.7	1,940	1,422	73.3	1,940	1,422	73.3
DEPARTMENT OF COMMERCE, TOTAL	149,019	85,641	57.5	165,159	96,143	58.2	168,621	103,954	61.6
BUREAU OF THE CENSUS	2,319	1,220	52.6	2,474	1,382	55.9	2,574	1,414	54.9
ECONOMIC DEVELOPMENT ADMINISTRATION	723	70	9.7	381	38	10.0	150	15	10.0
MARITIME ADMINISTRATION	2,499	264	10.6	1,978	247	12.5	1,812	251	13.9
NATIONAL BUREAU OF STANDARDS	46,554	35,315	75.9	52,968	38,556	72.8	49,256	38,309	77.8
NATIONAL FIRE PREV & CONTROL ADMIN	3,710	2,268	61.1	3,317	2,613	78.8	3,328	2,687	80.7
NATIONAL OCEANIC AND ATMOS ADMIN	91,441	45,468	49.7	101,913	52,293	51.3	109,612	60,360	55.1
OFFICE OF MINORITY BUSINESS ENTERP	503	319	63.4	649	173	26.7	410	77	18.8
OFFICE OF TELECOMMUNICATIONS	896	403	45.0	1,032	465	45.1	1,032	465	45.1
PATENT & TRADEMARK OFFICE	374	314	84.0	447	376	84.1	447	376	84.1
DEPARTMENT OF DEFENSE, TOTAL	2,823,182	1,467,650	52.0	3,120,026	1,615,807	51.8	3,201,411	1,636,808	51.1
DEPARTMENT OF THE ARMY	755,016	457,655	60.6	905,952	530,658	58.6	984,394	561,096	57.0
DEPARTMENT OF THE NAVY	1,015,754	592,976	58.4	1,054,440	610,890	57.9	1,059,673	618,320	58.4
DEPARTMENT OF THE AIR FORCE	855,602	336,394	39.3	921,600	379,553	41.2	914,094	372,407	40.7
DEFENSE AGENCIES	175,321	79,983	45.6	203,050	94,061	46.3	221,341	84,300	38.1
DEPARTMENTWIDE FUNDS	105	42	40.0	135	45	33.3	255	85	33.3
DIRECTOR OF TEST & EVALUATION, DEF	21,384	600	2.8	34,849	600	1.7	21,654	600	2.8
DEPT OF HEALTH, ED, & WELFARE, TOTAL	493,405	242,902	49.2	546,938	275,770	50.4	572,554	287,722	50.3
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	24,298	11,843	48.7	28,245	13,883	49.2	32,665	14,913	45.7
CENTER FOR DISEASE CONTROL	34,471	29,370	85.2	42,045	35,738	85.0	42,667	36,267	85.0
FOOD AND DRUG ADMINISTRATION	22,810	17,221	75.5	26,339	19,754	75.0	29,386	22,040	75.0
HEALTH RESOURCES ADMINISTRATION	9,428	7,115	75.5	9,332	6,861	73.5	7,856	7,227	92.0
HEALTH SERVICES ADMINISTRATION	5,663	4,089	72.2	5,684	3,496	61.5	5,718	3,426	59.9
NATIONAL INSTITUTE OF EDUCATION	11,513	7,905	68.7	15,424	8,842	57.3	18,711	9,376	50.1
NATIONAL INSTITUTES OF HEALTH	369,247	153,090	41.5	404,281	173,855	43.0	418,444	179,952	43.0
OFFICE OF EDUCATION	536	355	66.2	272	180	66.2	472	320	67.8
OFFICE OF HUMAN DEVELOPMENT	4,506	2,506	55.6	4,607	2,669	57.9	4,841	2,766	57.1
OFFICE OF ASS'T SECTY FOR EDUCATION	75	50	66.7	75	50	66.7	75	50	66.7
OFFICE OF THE SECRETARY	2,500	1,000	40.0	1,192	1,000	83.9	1,334	1,000	75.0
SOCIAL AND REHABILITATION SERVICE	514	514	100.0	750	750	100.0	750	750	100.0
SOCIAL SECURITY ADMINISTRATION	7,844	7,844	100.0	8,692	8,692	100.0	9,635	9,635	100.0
DEPT OF HOUSING & URBAN DEVELOPMENT	15,826	8,600	54.3	13,917	7,400	53.2	15,235	8,200	53.8
DEPARTMENT OF THE INTERIOR, TOTAL	220,176	148,440	67.4	235,635	157,913	67.0	252,642	159,695	63.2
BONNEVILLE POWER ADMINISTRATION	3,525	2,530	71.8	2,759	2,069	75.0	1,496	1,122	75.0
BUREAU OF LAND MANAGEMENT	311	260	83.6	466	417	89.5	475	294	61.9
BUREAU OF MINES	71,480	55,680	77.9	75,078	59,700	79.5	70,872	56,700	80.0
BUREAU OF OUTDOOR RECREATION	20	5	25.0	20	5	25.0	20	5	25.0
BUREAU OF RECLAMATION	5,211	2,888	55.4	5,215	2,896	55.5	4,255	2,368	55.7
GEOLOGICAL SURVEY	115,079	69,738	60.6	124,078	72,461	58.4	144,553	76,468	52.9
NATIONAL PARK SERVICE	4,767	2,383	50.0	4,970	2,662	53.6	5,396	2,993	55.5
OFFICE OF THE SECRETARY	395	165	41.8	898	702	78.2	898	725	80.7
OFFICE OF WATER RES AND TECHNOLOGY	2,157	1,891	66.1	2,351	2,151	91.5	2,227	2,180	97.9
US FISH AND WILDLIFE SERVICE	17,191	12,900	75.0	19,800	14,850	75.0	22,450	16,840	75.0
DEPARTMENT OF JUSTICE, TOTAL	5,435	4,648	85.5	7,420	3,393	45.7	8,549	6,373	74.5
BUREAU OF PRISONS	420	351	83.6	655	403	61.5	650	435	66.9
DRUG ENFORCEMENT ADMINISTRATION	500	500	100.0	1,200	1,200	100.0	750	750	100.0
FEDERAL BUREAU OF INVESTIGATION	221	221	100.0	200	200	100.0	278	278	100.0
IMMIGRATION & NATURALIZATION SERVICE	1	1	100.0	65	17	26.2	100	100	100.0
LAW ENFORCEMENT ASSISTANCE ADMIN	4,293	3,575	83.3	5,300	1,573	29.7	6,671	4,730	70.9
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	-	-	100	80	80.0
DEPARTMENT OF LABOR, TOTAL	10,763	7,571	70.3	13,836	9,633	69.6	13,307	9,729	73.1
BUREAU OF LABOR STATISTICS	1,308	1,119	85.6	1,372	1,166	85.0	1,243	1,057	85.0
EMPLOYMENT AND TRAINING ADMIN	3,600	1,862	51.7	4,509	2,109	46.8	4,120	2,109	51.2
EMPLOYMENT STANDARDS ADMINISTRATION	4,268	3,726	87.3	5,535	4,808	86.9	5,550	4,823	86.9
LABOR-MANAGEMENT SERVICES ADMIN	474	316	66.7	999	731	73.2	1,075	807	75.1
OCCUPATIONAL SAFETY & HEALTH ADMIN	300	300	100.0	500	500	100.0	600	600	100.0
OFFICE OF THE SECRETARY	813	248	30.5	921	319	34.6	719	333	46.3
DEPARTMENT OF STATE, TOTAL	5,790	5,430	93.8	9,426	8,852	93.9	9,562	8,974	93.9
DEPARTMENTAL FUNDS	267	143	53.6	255	140	54.9	270	148	54.8
AGENCY FOR INTERNATIONAL DEVELOPMENT	5,523	5,287	95.7	9,171	8,712	95.0	9,292	8,826	95.0

CONTINUED ON NEXT PAGE

TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1976			ESTIMATES					
				1977			1978		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPT OF TRANSPORTATION, TOTAL	63,113	34,230	54.2	76,332	41,815	54.8	73,398	41,355	56.3
FEDERAL AVIATION ADMINISTRATION	21,896	14,870	67.9	26,123	17,745	67.9	27,415	18,620	67.9
FEDERAL HIGHWAY ADMINISTRATION	482	420	87.1	749	665	88.8	749	665	88.8
FEDERAL RAILROAD ADMINISTRATION	19,616	6,925	35.3	19,939	7,045	35.3	15,540	5,500	35.4
MATERIALS TRANSPORTATION BUREAU	-	-	-	-	-	-	200	50	25.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,091	600	55.0	2,775	1,525	55.0	2,345	1,285	54.8
OFFICE OF THE SECRETARY	10,074	5,385	53.5	13,439	7,195	53.5	12,253	6,550	53.5
US COAST GUARD	3,309	1,520	45.9	5,192	2,120	40.8	5,366	2,195	40.9
URBAN MASS TRANSPORTATION ADMIN	6,645	4,510	67.9	8,115	5,520	68.0	9,530	6,490	68.1
DEPARTMENT OF THE TREASURY, TOTAL	3,510	1,975	56.3	3,756	2,436	64.9	3,931	2,645	67.3
BUREAU OF ALCOHOL TOBACCO & FIREARMS	-	-	-	105	105	100.0	116	116	100.0
BUREAU OF ENGRAVING AND PRINTING	2,640	1,625	61.6	2,802	1,881	67.1	2,915	1,979	67.9
CUSTOMS SERVICE	870	350	40.2	849	450	53.0	900	550	61.1
OTHER AGENCIES									
ACTION	15	15	100.0	26	26	100.0	26	26	100.0
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,026	772	75.2	1,172	789	67.3	1,379	894	64.8
APPALACHIAN REGIONAL COMMISSION	20	1	5.0	24	1	4.2	24	1	4.2
CIVIL AERONAUTICS BOARD	445	406	91.2	496	456	91.9	496	457	92.1
CIVIL SERVICE COMMISSION	2,549	2,549	100.0	2,349	2,349	100.0	2,349	2,349	100.0
COMMUNITY SERVICES ADMINISTRATION	1,000	1,000	100.0	1,000	1,000	100.0	1,000	1,000	100.0
CONSUMER PRODUCT SAFETY COMMISSION	3,344	320	9.6	2,629	300	11.4	2,266	240	10.6
ENERGY RESEARCH & DEVELOPMENT ADMIN	73,661	25,353	34.4	256,694	38,214	14.9	165,429	53,488	32.3
ENVIRONMENTAL PROTECTION AGENCY	122,995	46,123	37.5	151,906	49,655	32.7	140,700	47,505	33.8
FEDERAL COMMUNICATIONS COMMISSION	986	986	100.0	1,527	1,527	100.0	1,744	1,744	100.0
FEDERAL ENERGY ADMINISTRATION	1,023	958	93.6	772	726	94.0	-	-	-
FEDERAL HOME LOAN BANK BOARD	748	405	54.1	927	452	48.8	931	473	50.8
FEDERAL TRADE COMMISSION	850	740	87.1	1,110	970	87.4	1,200	1,040	86.7
GENERAL SERVICES ADMINISTRATION	165	123	74.5	151	114	75.5	139	105	75.5
INTERSTATE COMMERCE COMMISSION	123	105	85.4	118	100	84.7	375	315	84.0
LIBRARY OF CONGRESS	2,963	2,407	81.2	2,968	2,326	78.4	3,111	2,443	78.5
NATIONAL AERONAUTICS & SPACE ADMIN	1,168,321	603,933	51.7	1,220,833	643,952	52.7	1,258,501	645,261	51.3
NATIONAL SCIENCE FOUNDATION	64,860	28,043	43.2	81,250	31,113	38.3	83,567	32,237	38.6
NUCLEAR REGULATORY COMMISSION	7,430	3,120	42.0	8,948	4,300	48.1	9,580	4,655	48.6
OFFICE OF TELECOMMUNICATIONS POLICY	3,985	3,985	100.0	2,977	2,977	100.0	2,855	2,855	100.0
SMALL BUSINESS ADMINISTRATION	5	5	100.0	882	873	99.0	100	99	99.0
SMITHSONIAN INSTITUTION	24,679	16,612	67.3	28,506	20,169	70.8	29,301	20,430	69.7
TENNESSEE VALLEY AUTHORITY	7,935	6,348	80.0	14,631	11,705	80.0	11,425	9,140	80.0
US ARMS CONTROL & DISARMAMENT AGENCY	114	111	97.4	309	299	96.8	274	266	97.1
US INFORMATION AGENCY	102	68	66.7	141	94	66.7	120	82	68.3
US INTERNATIONAL TRADE COMMISSION	1,500	1,200	80.0	2,800	2,240	80.0	2,800	2,240	80.0
VETERANS ADMINISTRATION	95,945	70,577	73.6	108,235	79,825	73.8	110,344	81,558	73.9

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-107. FEDERAL OBLIGATIONS FOR TOTAL BASIC RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976			ESTIMATES					
				1977			1978		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	719,072	404,698	56.3%	790,913	432,808	54.7%	851,382	451,221	53.0%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	119,645	84,284	70.4	135,949	87,392	64.3	142,384	91,457	64.2
AGRICULTURAL RESEARCH SERVICE	95,666	67,349	70.4	109,539	68,571	62.6	114,080	71,414	62.6
COOPERATIVE STATE RESEARCH SERVICE	1,148	1,148	100.0	1,864	1,864	100.0	1,965	1,965	100.0
ECONOMIC RESEARCH SERVICE	3,488	2,678	76.8	3,888	2,887	74.3	4,208	3,007	71.5
FOREST SERVICE	18,951	12,887	68.0	20,227	13,754	68.0	21,700	14,755	68.0
STATISTICAL REPORTING SERVICE	392	222	56.6	431	316	73.3	431	316	73.3
DEPARTMENT OF COMMERCE, TOTAL	18,447	9,485	51.4	19,309	10,975	56.8	19,354	11,537	59.6
BUREAU OF THE CENSUS	182	83	45.6	200	98	49.0	209	99	47.4
ECONOMIC DEVELOPMENT ADMINISTRATION	270	25	9.3	84	8	9.5	50	5	10.0
MARITIME ADMINISTRATION	23	12	52.2	29	14	48.3	26	13	50.0
NATIONAL BUREAU OF STANDARDS	5,235	3,994	76.3	6,014	4,363	72.5	5,774	4,500	77.9
NATIONAL FIRE PREV & CONTROL ADMIN	1,756	1,185	67.4	1,332	1,137	85.4	1,341	1,154	86.1
NATIONAL OCEANIC AND ATMOS ADMIN	10,863	4,134	38.1	11,347	5,214	46.0	11,851	5,720	48.3
OFFICE OF MINORITY BUSINESS ENTERP	-	-	-	200	95	47.5	-	-	-
OFFICE OF TELECOMMUNICATIONS	116	52	44.8	103	46	44.7	103	46	44.7
DEPARTMENT OF DEFENSE, TOTAL	103,149	63,527	61.6	97,734	64,715	66.2	110,264	69,741	63.2
DEPARTMENT OF THE ARMY	17,176	13,677	79.6	15,562	12,974	83.4	19,336	16,089	83.2
DEPARTMENT OF THE NAVY	39,776	23,719	59.6	44,378	24,436	55.1	51,083	24,733	48.4
DEPARTMENT OF THE AIR FORCE	40,419	23,242	57.5	32,572	24,695	75.8	34,847	26,420	75.8
DEFENSE AGENCIES	5,778	2,889	50.0	5,222	2,610	50.0	4,998	2,499	50.0
DEPT OF HEALTH, ED, & WELFARE, TOTAL	131,667	53,940	41.0	150,532	63,275	42.0	160,970	64,996	40.4
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	15,859	7,450	47.0	19,030	9,165	48.2	22,432	9,694	43.2
HEALTH RESOURCES ADMINISTRATION	731	504	68.9	733	493	67.3	606	543	89.6
HEALTH SERVICES ADMINISTRATION	285	233	81.8	310	254	81.9	315	258	81.9
NATIONAL INSTITUTE OF EDUCATION	921	632	68.6	2,142	707	33.0	3,186	750	23.5
NATIONAL INSTITUTES OF HEALTH	111,933	44,621	39.9	127,677	52,156	40.8	133,715	53,251	39.8
OFFICE OF THE SECRETARY	1,938	500	25.8	640	500	78.1	716	500	69.8
DEPARTMENT OF THE INTERIOR, TOTAL	104,414	64,631	61.9	113,561	68,379	60.2	134,231	73,999	55.1
BUREAU OF MINES	800	680	85.0	800	700	87.5	800	700	87.5
BUREAU OF RECLAMATION	70	48	68.6	70	49	70.0	75	52	69.3
GEOLOGICAL SURVEY	94,918	57,520	60.6	102,208	59,689	58.4	121,719	64,389	52.9
NATIONAL PARK SERVICE	203	133	65.5	227	149	65.6	265	173	65.3
OFFICE OF THE SECRETARY	395	165	41.8	898	702	78.2	898	725	80.7
OFFICE OF WATER RES AND TECHNOLOGY	405	365	90.1	530	470	88.7	452	440	97.3
US FISH AND WILDLIFE SERVICE	7,623	5,720	75.0	8,828	6,620	75.0	10,022	7,520	75.0
DEPARTMENT OF JUSTICE, TOTAL	700	594	84.9	1,100	399	36.3	1,100	900	81.8
LAW ENFORCEMENT ASSISTANCE ADMIN	700	594	84.9	1,100	399	36.3	1,100	900	81.8
DEPARTMENT OF LABOR, TOTAL	294	217	73.8	189	151	79.9	189	151	79.9
EMPLOYMENT AND TRAINING ADMIN	94	67	71.3	74	74	100.0	74	74	100.0
LABOR-MANAGEMENT SERVICES ADMIN	200	150	75.0	115	77	67.0	115	77	67.0
OTHER AGENCIES									
ACTION	7	7	100.0	8	8	100.0	26	26	100.0
CIVIL SERVICE COMMISSION	307	307	100.0	277	277	100.0	277	277	100.0
ENERGY RESEARCH & DEVELOPMENT ADMIN	286	148	51.7	899	286	31.8	1,011	270	26.7
ENVIRONMENTAL PROTECTION AGENCY	685	685	100.0	1,060	1,060	100.0	900	900	100.0
FEDERAL TRADE COMMISSION	300	265	88.3	355	298	83.9	360	300	83.3
GENERAL SERVICES ADMINISTRATION	63	47	74.6	65	49	75.4	65	49	75.4
INTERSTATE COMMERCE COMMISSION	-	-	-	-	-	-	19	11	57.9
LIBRARY OF CONGRESS	171	167	97.7	150	25	16.7	157	70	44.6
NATIONAL AERONAUTICS & SPACE ADMIN	146,877	78,296	53.3	156,684	80,955	51.7	163,893	80,038	48.8
NATIONAL SCIENCE FOUNDATION	58,381	24,818	42.5	75,234	27,535	36.6	77,081	28,800	37.4
OFFICE OF TELECOMMUNICATIONS POLICY	100	100	100.0	1	1	100.0	100	100	100.0
SMITHSONIAN INSTITUTION	24,679	16,612	67.3	28,506	20,169	70.8	29,301	20,433	69.7
VETERANS ADMINISTRATION	8,900	6,568	73.8	9,300	6,859	73.8	9,700	7,169	73.9

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976			ESTIMATES					
				1977			1978		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	2,149,059	1,156,327	53.8%	2,370,913	1,286,599	54.3%	2,446,476	1,318,487	53.9%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	194,105	137,290	70.7	222,106	146,251	65.8	233,616	153,299	65.6
AGRICULTURAL RESEARCH SERVICE	119,958	84,450	70.4	137,419	86,024	62.6	143,346	89,735	62.6
COOPERATIVE STATE RESEARCH SERVICE	1,873	1,873	100.0	3,042	3,042	100.0	3,205	3,205	100.0
ECONOMIC RESEARCH SERVICE	19,764	15,172	76.8	22,034	16,359	74.2	23,845	17,039	71.5
FARMER COOPERATIVE SERVICE	1,204	1,023	85.0	1,330	1,131	85.0	1,574	1,338	85.0
FOREST SERVICE	50,263	34,179	68.0	57,072	38,809	68.0	60,437	41,096	68.0
NATIONAL AGRICULTURAL LIBRARY	3	3	100.0	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	1,040	590	56.7	1,209	886	73.3	1,209	886	73.3
DEPARTMENT OF COMMERCE, TOTAL	98,880	58,567	59.2	112,729	64,666	57.4	116,758	73,250	62.7
BUREAU OF THE CENSUS	1,780	887	49.8	1,910	1,023	53.6	1,991	1,043	52.4
ECONOMIC DEVELOPMENT ADMINISTRATION	153	15	9.8	47	5	10.6	50	5	10.0
MARITIME ADMINISTRATION	677	71	10.5	608	73	12.0	557	74	13.3
NATIONAL BUREAU OF STANDARDS	31,637	24,065	76.1	35,934	26,268	73.1	34,106	26,592	78.0
NATIONAL FIRE PREV & CONTROL ADMIN	953	858	90.0	1,232	1,008	81.8	1,215	1,041	85.7
NATIONAL OCEANIC AND ATMOS ADMIN	63,158	32,345	51.2	72,426	35,951	49.6	78,235	44,157	56.4
OFFICE OF MINORITY BUSINESS ENTERP	101	64	63.4	50	15	30.0	82	15	18.3
OFFICE OF TELECOMMUNICATIONS	234	105	44.9	299	135	45.2	299	135	45.2
PATENT & TRADEMARK OFFICE	187	157	84.0	223	188	84.3	223	188	84.3
DEPARTMENT OF DEFENSE, TOTAL	571,018	354,490	62.1	639,590	396,384	62.0	668,728	400,349	59.9
DEPARTMENT OF THE ARMY	193,240	131,448	68.0	240,583	162,816	67.7	274,789	187,781	68.3
DEPARTMENT OF THE NAVY	142,206	100,806	70.9	147,622	103,851	70.3	148,354	105,114	70.9
DEPARTMENT OF THE AIR FORCE	158,093	90,271	57.1	163,080	93,119	57.1	147,721	84,349	57.1
DEFENSE AGENCIES	77,374	31,923	41.3	88,170	36,553	41.5	97,609	23,020	23.6
DEPARTMENTWIDE FUNDS	105	42	40.0	135	45	33.3	255	85	33.3
DEPT OF HEALTH, ED, & WELFARE, TOTAL	332,152	165,062	49.7	363,338	186,370	51.3	375,949	194,087	51.6
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	8,414	4,368	51.9	9,190	4,693	51.1	10,208	5,194	50.9
CENTER FOR DISEASE CONTROL	34,471	29,370	85.2	42,045	35,738	85.0	42,667	36,267	85.0
FOOD AND DRUG ADMINISTRATION	22,810	17,221	75.5	26,339	19,754	75.0	29,386	22,040	75.0
HEALTH RESOURCES ADMINISTRATION	6,850	4,996	72.9	7,166	5,175	72.2	5,944	5,441	91.5
HEALTH SERVICES ADMINISTRATION	3,583	2,576	71.9	3,880	2,787	71.8	3,910	2,713	69.4
NATIONAL INSTITUTE OF EDUCATION	1,036	711	68.6	2,340	796	34.0	3,258	845	25.9
NATIONAL INSTITUTES OF HEALTH	244,194	96,334	39.4	260,427	106,837	41.0	267,587	110,175	41.2
OFFICE OF EDUCATION	136	75	55.1	72	40	55.6	72	40	55.6
OFFICE OF HUMAN DEVELOPMENT	2,563	1,403	54.7	2,960	1,708	57.7	3,089	1,687	54.6
OFFICE OF ASS'T SECTY FOR EDUCATION	75	50	66.7	75	50	66.7	75	50	66.7
OFFICE OF THE SECRETARY	562	500	89.0	552	500	90.6	618	500	80.9
SOCIAL AND REHABILITATION SERVICE	514	514	100.0	750	750	100.0	750	750	100.0
SOCIAL SECURITY ADMINISTRATION	6,944	6,944	100.0	7,542	7,542	100.0	8,385	8,385	100.0
DEPT OF HOUSING & URBAN DEVELOPMENT	11,106	6,700	60.3	9,721	5,800	59.7	11,294	6,700	59.3
DEPARTMENT OF THE INTERIOR, TOTAL	76,434	52,952	69.3	80,482	56,737	70.5	81,414	56,574	69.5
BONNEVILLE POWER ADMINISTRATION	125	94	75.2	80	60	75.0	123	92	74.8
BUREAU OF LAND MANAGEMENT	235	197	83.8	345	300	87.0	348	280	80.5
BUREAU OF MINES	39,439	30,000	76.1	40,400	32,000	79.2	40,000	32,000	80.0
BUREAU OF OUTDOOR RECREATION	20	5	25.0	20	5	25.0	20	5	25.0
BUREAU OF RECLAMATION	4,797	2,628	55.0	4,799	2,639	55.0	3,850	2,118	55.0
GEOLOGICAL SURVEY	20,161	12,218	60.6	21,870	12,772	58.4	22,834	12,079	52.9
NATIONAL PARK SERVICE	4,564	2,250	49.3	4,743	2,513	53.0	5,131	2,820	55.0
OFFICE OF WATER RES AND TECHNOLOGY	1,205	1,130	93.8	1,473	1,383	93.9	1,460	1,445	99.0
US FISH AND WILDLIFE SERVICE	5,888	4,420	75.1	6,752	5,065	75.0	7,648	5,735	75.0
DEPARTMENT OF JUSTICE, TOTAL	2,079	1,773	85.3	2,570	877	34.1	3,590	3,295	91.8
BUREAU OF PRISONS	-	-	-	55	23	41.8	50	35	70.0
DRUG ENFORCEMENT ADMINISTRATION	100	100	100.0	200	200	100.0	300	300	100.0
IMMIGRATION & NATURALIZATION SERVICE	1	1	100.0	15	4	26.7	50	50	100.0
LAW ENFORCEMENT ASSISTANCE ADMIN	1,978	1,672	84.5	2,300	650	28.3	3,090	2,830	91.6
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	-	-	100	80	80.0
DEPARTMENT OF LABOR, TOTAL	8,876	5,841	65.8	11,800	7,707	65.3	11,260	7,788	69.2
BUREAU OF LABOR STATISTICS	776	667	86.0	896	762	85.0	787	669	85.0
EMPLOYMENT AND TRAINING ADMIN	2,445	734	30.0	3,064	664	21.7	2,644	633	23.9
EMPLOYMENT STANDARDS ADMINISTRATION	4,268	3,726	87.3	5,535	4,808	86.9	5,550	4,823	86.9
LABOR-MANAGEMENT SERVICES ADMIN	274	166	60.6	884	654	74.0	960	730	76.0
OCCUPATIONAL SAFETY & HEALTH ADMIN	300	300	100.0	500	500	100.0	600	600	100.0
OFFICE OF THE SECRETARY	813	248	30.5	921	319	34.6	719	333	46.3
DEPARTMENT OF STATE, TOTAL	5,316	5,004	94.1	8,131	7,630	93.8	7,434	6,969	93.7
DEPARTMENTAL FUNDS	217	120	55.3	235	129	54.9	240	135	56.2
AGENCY FOR INTERNATIONAL DEVELOPMENT	5,099	4,884	95.8	7,896	7,501	95.0	7,194	6,834	95.0

CONTINUED ON NEXT PAGE

TABLE C-108. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1976			ESTIMATES					
				1977			1978		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPT OF TRANSPORTATION, TOTAL	10,819	6,105	56.4	12,372	6,950	56.2	10,654	6,055	56.8
FEDERAL AVIATION ADMINISTRATION	641	420	65.5	908	600	66.1	1,015	670	66.0
FEDERAL HIGHWAY ADMINISTRATION	188	150	79.8	198	160	80.8	198	160	80.8
FEDERAL RAILROAD ADMINISTRATION	6,703	3,700	55.2	6,859	3,775	55.0	5,350	2,950	55.1
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	272	150	55.1	1,045	575	55.0	660	360	54.5
OFFICE OF THE SECRETARY	1,545	720	46.6	1,981	925	46.7	1,866	870	46.6
US COAST GUARD	1,187	775	65.3	1,006	655	65.1	1,050	685	65.2
URBAN MASS TRANSPORTATION ADMIN	283	190	67.1	375	260	69.3	515	360	69.9
DEPARTMENT OF THE TREASURY, TOTAL	1,474	1,002	68.0	1,553	1,090	70.2	1,637	1,141	69.7
BUREAU OF ALCOHOL TOBACCO & FIREARMS	-	-	-	90	90	100.0	92	92	100.0
BUREAU OF ENGRAVING AND PRINTING	1,474	1,002	68.0	1,463	1,000	68.4	1,545	1,049	67.9
OTHER AGENCIES									
ACTION	8	8	100.0	-	-	-	-	-	-
ADV COMM ON INTERGOVERNMNTL RELATIONS	1,026	772	75.2	1,172	789	67.3	1,379	894	64.8
APPALACHIAN REGIONAL COMMISSION	20	1	5.0	24	1	4.2	24	1	4.2
CIVIL AERONAUTICS BOARD	445	406	91.2	496	456	91.9	496	457	92.1
CIVIL SERVICE COMMISSION	820	820	100.0	740	740	100.0	740	740	100.0
CONSUMER PRODUCT SAFETY COMMISSION	1,595	150	9.4	931	100	10.7	989	100	10.1
ENERGY RESEARCH & DEVELOPMENT ADMIN	21,236	8,486	40.0	30,780	12,064	39.2	31,838	13,733	43.1
ENVIRONMENTAL PROTECTION AGENCY	77,300	26,989	34.9	93,009	28,733	30.9	83,245	27,605	33.2
FEDERAL COMMUNICATIONS COMMISSION	986	986	100.0	1,527	1,527	100.0	1,744	1,744	100.0
FEDERAL ENERGY ADMINISTRATION	295	274	92.9	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	748	405	54.1	927	452	48.8	931	473	50.8
FEDERAL TRADE COMMISSION	550	475	86.4	755	672	89.0	840	740	88.1
GENERAL SERVICES ADMINISTRATION	27	20	74.1	46	35	76.1	24	18	75.0
INTERSTATE COMMERCE COMMISSION	123	105	85.4	118	100	84.7	94	80	85.1
LIBRARY OF CONGRESS	256	164	64.1	225	143	63.6	236	210	89.0
NATIONAL AERONAUTICS & SPACE ADMIN	632,466	252,288	39.8	659,378	276,053	41.9	686,415	279,742	40.8
NATIONAL SCIENCE FOUNDATION	5,666	2,720	48.0	5,192	3,018	58.1	6,027	3,127	51.9
NUCLEAR REGULATORY COMMISSION	7,430	3,120	42.0	8,948	4,300	48.1	9,580	4,655	48.6
OFFICE OF TELECOMMUNICATIONS POLICY	1,200	1,200	100.0	1,740	1,740	100.0	1,500	1,500	100.0
SMALL BUSINESS ADMINISTRATION	5	5	100.0	882	873	99.0	100	99	99.0
TENNESSEE VALLEY AUTHORITY	5,688	4,550	80.0	10,440	8,352	80.0	7,794	6,235	80.0
US ARMS CONTROL & DISARMAMENT AGENCY	84	82	97.6	182	176	96.7	144	140	97.2
US INFORMATION AGENCY	99	67	67.7	134	91	67.9	120	82	68.3
US INTERNATIONAL TRADE COMMISSION	1,500	1,200	80.0	2,800	2,240	80.0	2,800	2,240	80.0
VETERANS ADMINISTRATION	76,227	56,248	73.8	86,075	63,482	73.8	87,082	64,365	73.9

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-109. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976			ESTIMATES					
				1977			1978		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	2,841,829	1,497,253	52.7%	3,305,174	1,644,836	49.8%	3,249,778	1,665,835	51.3%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	19,202	13,352	69.5	23,119	14,886	64.4	22,390	14,429	64.4
AGRICULTURAL RESEARCH SERVICE	13,531	9,526	70.4	15,781	9,880	62.6	15,037	9,413	62.6
FOREST SERVICE	5,398	3,671	68.0	7,038	4,786	68.0	7,053	4,796	68.0
STATISTICAL REPORTING SERVICE	273	155	56.8	300	220	73.3	300	220	73.3
DEPARTMENT OF COMMERCE, TOTAL	31,692	17,589	55.5	33,121	20,502	61.9	32,509	19,167	59.0
BUREAU OF THE CENSUS	357	250	70.0	364	261	71.7	374	272	72.7
ECONOMIC DEVELOPMENT ADMINISTRATION	300	30	10.0	250	25	10.0	50	5	10.0
MARITIME ADMINISTRATION	1,799	181	10.1	1,341	160	11.9	1,229	164	13.3
NATIONAL BUREAU OF STANDARDS	9,682	7,256	74.9	11,020	7,925	71.9	9,376	7,217	77.0
NATIONAL FIRE PREV & CONTROL ADMIN	999	225	22.5	753	468	62.2	772	492	63.7
NATIONAL OCEANIC AND ATMOS ADMIN	17,420	8,989	51.6	18,140	11,128	61.3	19,526	10,483	53.7
OFFICE OF MINORITY BUSINESS ENTERP	402	255	63.4	399	63	15.8	328	62	18.9
OFFICE OF TELECOMMUNICATIONS	546	246	45.1	630	284	45.1	630	284	45.1
PATENT & TRADEMARK OFFICE	187	157	84.0	224	188	83.9	224	188	83.9
DEPARTMENT OF DEFENSE, TOTAL	2,149,015	1,049,633	48.8	2,382,702	1,154,708	48.5	2,422,419	1,166,718	48.2
DEPARTMENT OF THE ARMY	544,600	312,530	57.4	649,807	354,868	54.6	690,269	357,226	51.8
DEPARTMENT OF THE NAVY	833,772	468,451	56.2	862,440	482,603	56.0	860,236	488,473	56.8
DEPARTMENT OF THE AIR FORCE	657,090	222,881	33.9	725,948	261,739	36.1	731,526	261,638	35.8
DEFENSE AGENCIES	92,169	45,171	49.0	109,658	54,898	50.1	118,734	58,781	49.5
DIRECTOR OF TEST & EVALUATION, DEF	21,384	600	2.8	34,849	600	1.7	21,654	600	2.8
DEPT OF HEALTH, ED. & WELFARE, TOTAL	29,586	23,900	80.8	33,068	26,125	79.0	35,635	28,639	80.4
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	25	25	100.0	25	25	100.0	25	25	100.0
HEALTH RESOURCES ADMINISTRATION	1,847	1,615	87.4	1,433	1,193	83.3	1,306	1,243	95.2
HEALTH SERVICES ADMINISTRATION	1,795	1,280	71.3	1,494	455	30.5	1,493	455	30.5
NATIONAL INSTITUTE OF EDUCATION	9,556	6,562	68.7	10,942	7,339	67.1	12,267	7,781	63.4
NATIONAL INSTITUTES OF HEALTH	13,120	12,135	92.5	16,177	14,862	91.9	17,142	16,526	96.4
OFFICE OF EDUCATION	400	280	70.0	200	140	70.0	400	280	70.0
OFFICE OF HUMAN DEVELOPMENT	1,943	1,103	56.8	1,647	961	58.3	1,752	1,079	61.6
SOCIAL SECURITY ADMINISTRATION	900	900	100.0	1,150	1,150	100.0	1,250	1,250	100.0
DEPT OF HOUSING & URBAN DEVELOPMENT	4,720	1,900	40.3	4,196	1,600	38.1	3,941	1,500	38.1
DEPARTMENT OF THE INTERIOR, TOTAL	39,328	30,857	78.5	41,592	32,797	78.9	36,997	29,122	78.7
BONNEVILLE POWER ADMINISTRATION	3,400	2,436	71.6	2,679	2,009	75.0	1,373	1,030	75.0
BUREAU OF LAND MANAGEMENT	76	63	82.9	121	117	96.7	127	14	11.0
BUREAU OF MINES	31,241	25,000	80.0	33,878	27,000	79.7	30,072	24,000	79.8
BUREAU OF RECLAMATION	344	202	58.7	346	208	60.1	330	198	60.0
OFFICE OF WATER RES AND TECHNOLOGY	587	396	67.5	348	298	85.6	315	295	93.7
US FISH AND WILDLIFE SERVICE	3,680	2,760	75.0	4,220	3,165	75.0	4,780	3,585	75.0
DEPARTMENT OF JUSTICE, TOTAL	2,656	2,281	85.9	3,750	2,117	56.5	3,859	2,178	56.4
BUREAU OF PRISONS	420	351	83.6	600	380	63.3	600	400	66.7
DRUG ENFORCEMENT ADMINISTRATION	400	400	100.0	1,000	1,000	100.0	450	450	100.0
FEDERAL BUREAU OF INVESTIGATION	221	221	100.0	200	200	100.0	278	278	100.0
IMMIGRATION & NATURALIZATION SERVICE	-	-	-	50	13	26.0	50	50	100.0
LAW ENFORCEMENT ASSISTANCE ADMIN	1,615	1,309	81.1	1,900	524	27.6	2,481	1,000	40.3
DEPARTMENT OF LABOR, TOTAL	1,593	1,513	95.0	1,847	1,775	96.1	1,858	1,790	96.3
BUREAU OF LABOR STATISTICS	532	452	85.0	476	404	84.9	456	388	85.1
EMPLOYMENT AND TRAINING ADMIN	1,061	1,061	100.0	1,371	1,371	100.0	1,402	1,402	100.0
DEPARTMENT OF STATE, TOTAL	474	426	89.9	1,295	1,222	94.4	2,128	2,005	94.2
DEPARTMENTAL FUNDS	50	23	46.0	20	11	55.0	30	13	43.3
AGENCY FOR INTERNATIONAL DEVELOPMENT	424	403	95.0	1,275	1,211	95.0	2,098	1,992	94.9
DEPT OF TRANSPORTATION, TOTAL	52,294	28,125	53.8	63,960	34,865	54.5	62,744	35,300	56.3
FEDERAL AVIATION ADMINISTRATION	21,255	14,450	68.0	25,215	17,145	68.0	26,400	17,950	68.0
FEDERAL HIGHWAY ADMINISTRATION	294	270	91.8	551	505	91.7	551	505	91.7
FEDERAL RAILROAD ADMINISTRATION	12,913	3,225	25.0	13,080	3,270	25.0	10,190	2,550	25.0
MATERIALS TRANSPORTATION BUREAU	-	-	-	-	-	-	200	50	25.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	819	450	54.9	1,730	950	54.9	1,685	925	54.9
OFFICE OF THE SECRETARY	8,529	4,665	54.7	11,458	6,270	54.7	10,387	5,680	54.7
US COAST GUARD	2,122	745	35.1	4,186	1,465	35.0	4,316	1,510	35.0
URBAN MASS TRANSPORTATION ADMIN	6,362	4,320	67.9	7,740	5,260	68.0	9,015	6,130	68.0

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TABLE C-109. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1976			ESTIMATES					
				1977			1978		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF THE TREASURY, TOTAL	2,036	973	47.8	2,203	1,346	61.1	2,294	1,504	65.6
BUREAU OF ALCOHOL TOBACCO & FIREARMS	-	-	-	15	15	100.0	24	24	100.0
BUREAU OF ENGRAVING AND PRINTING	1,166	623	53.4	1,339	881	65.8	1,370	930	67.9
CUSTOMS SERVICE	870	350	40.2	849	450	53.0	900	550	61.1
OTHER AGENCIES									
ACTION	-	-	-	18	18	100.0	-	-	-
CIVIL SERVICE COMMISSION	1,422	1,422	100.0	1,332	1,332	100.0	1,332	1,332	100.0
COMMUNITY SERVICES ADMINISTRATION	1,000	1,000	100.0	1,000	1,000	100.0	1,000	1,000	100.0
CONSUMER PRODUCT SAFETY COMMISSION	1,749	170	9.7	1,698	200	11.8	1,277	140	11.0
ENERGY RESEARCH & DEVELOPMENT ADMIN	52,139	16,719	32.1	225,015	25,864	11.5	132,580	39,485	29.8
ENVIRONMENTAL PROTECTION AGENCY	45,010	18,449	41.0	57,837	19,862	34.3	56,555	19,000	33.6
FEDERAL ENERGY ADMINISTRATION	728	684	94.0	772	726	94.0	-	-	-
GENERAL SERVICES ADMINISTRATION	75	56	74.7	40	30	75.0	50	38	76.0
INTERSTATE COMMERCE COMMISSION	-	-	-	-	-	-	262	224	85.5
LIBRARY OF CONGRESS	2,536	2,076	81.9	2,593	2,158	83.2	2,718	2,163	79.6
NATIONAL AERONAUTICS & SPACE ADMIN	387,578	273,349	70.5	404,771	286,944	70.9	408,193	285,481	69.9
NATIONAL SCIENCE FOUNDATION	813	505	62.1	824	560	68.0	459	310	67.5
OFFICE OF TELECOMMUNICATIONS POLICY	2,685	2,685	100.0	1,236	1,236	100.0	1,255	1,255	100.0
TENNESSEE VALLEY AUTHORITY	2,247	1,798	80.0	4,191	3,353	80.0	3,631	2,905	80.0
US ARMS CONTROL & DISARMAMENT AGENCY	30	29	96.7	127	123	96.9	130	126	96.9
US INFORMATION AGENCY	3	1	33.3	7	3	42.9	-	-	-
VETERANS ADMINISTRATION	10,818	7,761	71.7	12,860	9,484	73.7	13,562	10,024	73.9

SOURCE: NATIONAL SCIENCE FOUNDATION.

Table C-110. Federal outlays for research, development, and R&D plant, by agency: fiscal years 1968-78

/Millions of dollars/

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates	
										1977	1978
Total, all agencies	17,048.9	16,347.6	15,735.8	15,973.2	16,728.9	17,489.1	18,302.2	19,558.7	20,687.9	23,244.0	25,850.5
Departments											
Department of Agriculture	286.2	283.8	298.6	318.9	357.9	357.1	381.5	425.6	468.8	570.7	592.2
Department of Commerce	81.6	78.4	127.9	122.9	168.2	186.2	188.2	224.6	233.3	249.9	257.0
Department of Defense, total	8,163.6	7,868.4	7,587.9	7,706.0	8,297.2	8,597.6	8,979.7	9,363.5	9,092.7	10,094.0	11,291.9
Department of the Army	1,539.5	1,609.8	1,771.6	1,670.6	1,889.8	2,042.4	2,308.6	2,083.0	1,969.6	2,341.7	2,536.2
Department of the Navy	2,104.1	2,108.8	2,172.4	2,477.9	2,501.5	2,498.9	2,715.8	3,126.3	3,320.1	3,673.5	4,096.3
Department of the Air Force	3,987.8	3,626.3	3,150.1	3,025.6	3,426.2	3,588.5	3,442.3	3,567.6	3,625.2	3,887.3	4,454.8
Departmentwide Funds	7.2	9.2	5.9	4.5	4.0	3.0	2.3	3.0	2.2	1.1	1.2
Defense Agencies	525.0	514.2	488.0	527.5	475.7	461.3	485.2	556.9	154.7	162.4	175.4
Director of Test and Evaluation	-------	-------	-------	-------	-------	3.4	25.5	26.8	20.9	28.0	28.0
Department of Health, Education, and Welfare	1,283.1	1,220.0	1,261.3	1,326.8	1,554.5	1,878.4	1,960.6	2,166.2	2,615.0	2,626.3	2,996.8
Department of the Interior	195.1	204.2	159.8	185.1	214.5	254.1	199.6	250.6	304.0	350.4	367.1
Department of Transportation	219.1	208.0	262.6	477.8	287.0	337.3	363.7	339.2	335.7	397.2	393.4
Other Agencies											
Atomic Energy Commission	1,594.3	1,654.0	1,616.0	1,604.9	1,551.3	1,624.4	--------	--------	-------	-------	-------
Energy Research and Development Administration	-------	-------	-------	-------	-------	-------	1,825.0	2,271.5	2,588.8	3,637.9	4,396.4
Environmental Protection Agency	-------	-------	70.2	101.0	133.8	147.7	172.2	218.6	265.6	349.0	312.9
National Aeronautics and Space Administration	4,723.7	4,251.7	3,753.1	3,381.9	3,422.9	3,315.2	3,256.2	3,266.5	3,669.0	3,732.8	3,914.8
National Science Foundation	333.6	342.3	324.1	373.9	435.0	470.9	584.7	600.4	669.1	681.4	763.7
Nuclear Regulatory Commission	-------	-------	-------	-------	-------	-------	46.1	58.5	76.9	106.2	128.5
Office of Economic Opportunity	41.0	77.1	79.3	129.5	81.2	76.9	--------	--------	-------	-------	-------
Veterans Administration	47.4	54.0	61.7	67.9	76.1	82.8	85.7	97.0	109.5	117.2	117.7
All other agencies	80.2	105.7	133.3	176.6	149.3	160.5	259.0	276.5	259.5	331.0	318.1

Source: National Science Foundation

Table C-111. Federal outlays for research and development, by agency: fiscal years 1968-78

/Millions of dollars/

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total, all agencies..........	16,333.0	15,695.4	15,157.0	15,360.5	16,164.4	16,851.0	17,598.0	18,729.1	19,892.9	22,278.2	24,623.6
Departments											
Department of Agriculture......	262.5	270.1	285.0	311.3	348.1	348.5	375.6	417.7	460.0	535.4	569.5
Department of Commerce.........	75.4	75.1	122.9	118.2	164.1	180.4	176.3	214.1	225.5	243.9	252.7
Department of Defense, total...	7,990.1	7,660.5	7,447.1	7,561.5	8,138.8	8,440.6	8,814.9	9,210.6	8,954.1	9,931.8	10,983.6
Department of the Army.........	1,495.5	1,577.3	1,753.5	1,637.9	1,859.4	1,996.4	2,277.2	2,053.1	1,949.0	2,319.9	2,527.9
Department of the Navy.........	2,052.9	2,080.0	2,150.8	2,449.4	2,462.1	2,466.4	2,668.3	3,078.5	3,260.8	3,620.1	4,032.9
Department of the Air Force....	3,927.2	3,513.8	3,088.5	2,975.9	3,362.6	3,533.1	3,374.1	3,513.1	3,568.1	3,800.7	4,219.8
Departmentwide Funds...........	7.2	9.2	5.9	4.5	4.0	3.0	2.3	3.0	2.2	1.1	1.2
Defense Agencies...............	507.3	480.0	448.4	493.8	450.7	438.3	467.4	536.2	153.1	162.0	173.8
Director of Test and Evaluation	-------	-------	-------	-------	-------	3.4	25.5	26.8	20.9	28.0	28.0
Department of Health, Education and Welfare.................	1,216.5	1,186.7	1,217.9	1,282.5	1,516.7	1,815.7	1,927.3	2,080.3	2,562.6	2,560.1	2,926.7
Department of the Interior.....	178.2	195.8	151.6	178.1	209.8	237.8	198.0	248.2	303.2	342.2	365.3
Department of Transportation...	212.3	203.2	258.9	468.2	273.7	312.3	328.4	324.5	323.6	377.0	374.7
Other Agencies											
Atomic Energy Commission.......	1,369.0	1,405.9	1,346.0	1,302.9	1,297.7	1,363.2	--------	--------	-------	-------	-------
Energy Research and Development Administration..............	-------	-------	-------	-------	-------	-------	1,488.9	1,860.3	2,224.6	3,167.9	3,797.5
Environmental Protection Agency	-------	-------	68.1	100.6	133.1	144.7	161.3	207.2	259.0	343.9	308.4
National Aeronautics and Space Administration..............	4,597.6	4,186.4	3,696.5	3,337.8	3,372.5	3,270.5	3,181.1	3,181.2	3,548.1	3,607.7	3,782.3
National Science Foundation...	266.7	280.0	292.9	334.7	417.5	427.8	570.7	571.3	619.0	646.0	719.1
Nuclear Regulatory Commission.	-------	-------	-------	-------	-------	-------	42.3	55.8	73.3	97.2	119.1
Office of Economic Opportunity	41.0	77.1	79.3	129.5	81.2	76.9	-------	--------	-------	-------	-------
Veterans Administration.......	44.1	49.8	58.0	60.8	66.5	75.0	80.4	94.8	97.7	110.4	111.8
All other agencies...........	79.6	104.8	132.8	174.4	144.7	157.6	252.8	263.1	242.2	314.7	312.9

Source: National Science Foundation

Table C-112. Federal outlays for R&D plant, by agency; fiscal years 1968-78

/Millions of dollars/

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total, all agencies............	715.9	652.2	578.9	612.7	564.4	638.0	704.2	829.9	795.1	965.7	1,226.9
Departments											
Department of Agriculture......	23.7	13.7	13.6	7.6	9.7	8.6	5.9	7.9	8.8	35.3	22.7
Department of Commerce.........	6.2	3.3	5.1	4.7	4.1	5.8	11.9	10.5	7.8	5.9	4.3
Department of Defense, total...	173.5	207.9	140.8	144.5	158.4	157.0	164.9	152.9	138.7	162.2	308.3
Department of the Army.........	43.9	32.5	18.2	32.7	30.4	46.0	31.4	30.0	20.6	21.8	8.3
Department of the Navy.........	51.2	28.8	21.6	28.4	39.4	32.5	47.5	47.8	59.3	53.4	63.4
Department of the Air Force....	60.6	112.5	61.5	49.7	63.6	55.4	68.2	54.5	57.1	86.6	235.0
Defense Agencies...............	17.7	34.2	39.6	33.7	25.0	23.0	17.7	20.6	1.7	.4	1.6
Department of Health, Education, and Welfare..................	66.6	33.3	43.3	44.3	37.8	62.7	33.3	85.9	52.4	66.3	70.2
Department of the Interior.....	16.9	8.4	8.3	7.0	4.7	16.3	1.6	2.4	.8	8.2	1.8
Department of Transportation...	6.8	4.8	3.7	9.6	13.3	25.0	35.4	14.7	12.1	20.2	18.7
Other Agencies											
Atomic Energy Commission.......	225.3	248.1	270.0	302.0	253.6	261.2	-----	-----	-------	-------	-------
Energy Research and Development Administration...............	-----	-----	-----	-----	-----	-----	336.1	411.2	364.2	470.0	598.9
Environmental Protection Agency	-----	-----	2.1	.4	.7	3.0	10.9	11.3	6.7	5.1	4.5
National Aeronautics and Space Administration..............	126.1	65.3	56.6	44.1	50.3	44.7	75.1	85.3	120.9	125.1	132.5
National Science Foundation...	66.9	62.3	31.2	39.2	17.5	43.1	14.0	29.1	50.1	35.4	44.6
Nuclear Regulatory Commission.	-----	-----	-----	-----	-----	-----	3.8	2.6	3.5	9.0	9.4
Veterans Administration.......	3.3	4.2	3.7	7.0	9.6	7.8	5.3	2.2	11.8	6.9	5.9
All other agencies............	.6	.9	.5	2.3	4.7	2.8	6.0	13.7	17.3	16.1	5.1

Source: National Science Foundation

Table C-113. Federal obligations for research, development, and R&D plant, by agency; fiscal years 1968-78

[Millions of dollars]

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total, all agencies	16,525.3	16,310.1	15,864.8	16,156.2	17,099.8	17,574.4	18,181.0	19,834.0	21,595.3	26,068.8	27,883.1
Departments											
Department of Agriculture	271.9	270.8	286.4	310.0	357.4	369.4	387.5	427.9	478.6	547.9	588.4
Department of Commerce	88.1	75.3	125.5	152.9	194.7	198.5	192.2	224.9	235.5	254.8	245.2
Department of Defense, total	7,907.7	7,890.0	7,500.9	7,662.7	8,492.9	8,550.6	8,589.5	9,179.6	9,798.1	11,639.9	12,456.7
Department of the Army	1,593.9	1,666.5	1,687.0	1,726.0	2,103.7	2,030.7	2,042.0	1,920.7	2,026.0	2,526.5	2,713.8
Department of the Navy	2,078.4	2,159.7	2,276.1	2,311.7	2,559.7	2,690.5	2,772.6	3,162.8	3,373.8	3,929.9	4,359.3
Department of the Air Force	3,724.5	3,604.2	3,049.1	3,163.2	3,325.1	3,344.1	3,283.9	3,573.1	3,799.6	4,457.9	4,585.1
Departmentwide Funds	7.3	5.0	4.1	3.0	4.0	3.2	2.7	1.7	.7	.9	1.7
Defense Agencies	503.5	454.6	484.6	458.8	500.4	457.1	464.1	497.4	573.9	687.1	771.7
Director of Test and Evaluation	--------	--------	--------	--------	--------	25.1	24.2	23.9	24.1	37.6	25.1
Department of Health, Education, and Welfare	1,298.5	1,350.2	1,252.2	1,493.4	1,806.1	1,879.1	2,331.0	2,402.2	2,579.0	3,102.8	3,092.7
Department of the Interior	217.5	221.8	168.5	202.2	234.1	265.5	198.7	290.7	320.2	357.7	361.6
Department of Transportation	179.8	237.5	333.4	508.0	336.3	348.9	383.2	324.8	308.7	432.3	420.0
Other Agencies											
Atomic Energy Commission	1,534.3	1,708.5	1,611.9	1,615.2	1,544.4	1,712.3	--------	--------	-------	-------	-------
Energy Research and Development Administration	--------	--------	--------	--------	--------	--------	1,881.6	2,464.8	2,937.7	4,344.3	4,988.7
Environmental Protection Agency	--------	--------	90.5	137.8	123.0	205.1	170.5	259.7	265.4	366.5	311.6
National Aeronautics and Space Administration	4,494.4	4,018.1	3,833.4	3,298.2	3,202.5	3,130.2	3,100.5	3,207.1	3,529.0	3,727.9	4,009.5
National Science Foundation	350.3	300.7	312.3	364.8	473.5	537.0	568.1	618.1	661.8	722.5	803.0
Nuclear Regulatory Commission	--------	--------	--------	--------	--------	--------	46.1	67.2	98.1	122.0	148.4
Office of Economic Opportunity	44.1	70.6	123.4	134.0	92.7	87.8	--------	--------	-------	-------	-------
Veterans Administration	48.0	54.3	61.2	77.9	71.3	84.6	86.9	97.0	109.5	117.2	117.7
All Other agencies	90.7	112.3	165.3	199.1	170.9	205.4	245.2	270.0	273.7	333.0	339.6

Source: National Science Foundation

Table C-114. Federal obligations for research and development, by agency; fiscal years 1968-78

[Millions of dollars]

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total, all agencies	15,921.4	15,641.1	15,340.3	15,545.0	16,497.8	16,800.1	17,414.7	19,013.3	20,758.6	24,465.3	26,316.7
Departments											
Department of Agriculture	253.5	260.1	281.2	304.9	349.6	366.5	378.7	420.1	462.4	525.3	573.8
Department of Commerce	83.9	72.1	121.6	143.7	187.3	190.6	180.6	215.4	228.9	247.4	239.5
Department of Defense, total	7,709.3	7,696.3	7,360.4	7,509.0	8,318.1	8,404.2	8,420.4	9,012.5	9,654.7	11,171.8	12,108.1
Department of the Army	1,563.4	1,643.8	1,659.8	1,682.4	2,064.2	2,013.6	2,009.9	1,896.7	2,013.7	2,495.6	2,652.9
Department of the Navy	2,024.8	2,124.2	2,257.9	2,283.7	2,519.4	2,654.8	2,718.5	3,100.2	3,328.0	3,871.6	4,273.7
Department of the Air Force	3,621.7	3,498.5	2,990.0	3,113.5	3,254.3	3,273.5	3,216.2	3,513.5	3,726.6	4,091.1	4,403.3
Departmentwide Funds	7.3	5.0	4.1	3.0	4.0	3.2	2.7	1.7	.7	.9	1.7
Defense Agencies	492.0	424.6	448.6	426.5	476.4	434.1	448.9	476.5	561.6	675.0	751.4
Director of Test and Evaluation	--------	--------	--------	--------	--------	25.1	24.2	23.9	24.1	37.6	25.1
Department of Health, Education, and Welfare	1,251.8	1,297.4	1,221.0	1,476.1	1,751.1	1,837.6	2,290.1	2,363.1	2,545.9	2,959.5	3,009.4
Department of the Interior	190.6	207.6	157.9	193.7	220.3	243.4	196.6	286.8	314.2	348.4	361.5
Department of Transportation	171.7	231.8	327.8	497.2	310.5	310.6	369.8	311.6	294.5	407.4	398.4
Other Agencies											
Atomic Energy Commission	1,369.0	1,405.9	1,346.0	1,302.9	1,297.7	1,363.2	--------	--------	-------	-------	-------
Energy Research and Development Administration	--------	--------	--------	--------	--------	--------	1,488.9	2,072.3	2,498.9	3,609.8	4,143.0
Environmental Protection Agency	--------	--------	88.5	136.7	122.4	180.6	169.2	257.7	259.1	361.4	310.5
National Aeronautics and Space Administration	4,429.4	3,963.3	3,799.9	3,257.9	3,157.2	3,060.9	3,002.2	3,064.4	3,446.8	3,609.8	3,847.7
National Science Foundation	283.5	273.8	289.0	336.9	454.8	479.9	556.4	595.0	609.3	686.2	757.5
Nuclear Regulatory Commission	--------	--------	--------	--------	--------	--------	42.3	64.2	88.4	113.9	139.1
Office of Economic Opportunity	44.1	70.6	123.4	134.0	92.7	87.8	--------	--------	-------	-------	-------
Veterans Administration	44.7	50.2	58.6	62.9	69.1	74.3	84.8	94.8	97.7	110.4	111.8
All other agencies	89.9	111.9	165.0	189.1	167.0	200.5	234.7	255.4	257.8	314.0	316.4

Source: National Science Foundation

Table C-115. Federal obligations for R&D plant, by agency; fiscal years 1968-78

/Millions of dollars/

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total, all agencies	603.8	669.0	524.4	611.2	602.1	774.3	766.3	820.7	836.7	1,603.5	1,566.5
Departments											
Department of Agriculture	18.3	10.7	5.3	5.1	7.8	2.9	8.8	7.8	16.1	22.7	14.6
Department of Commerce	4.2	3.2	3.9	9.2	7.4	7.9	11.6	9.5	6.6	7.4	5.7
Department of Defense, total	198.3	193.8	140.6	153.7	174.7	146.4	169.1	167.1	143.4	468.1	348.6
Department of the Army	30.5	22.7	27.2	43.6	39.5	17.1	32.1	23.9	12.3	30.9	60.9
Department of the Navy	53.6	35.5	18.2	28.0	40.4	35.7	54.0	62.7	45.8	58.3	85.6
Department of the Air Force	102.8	105.6	59.2	49.7	70.8	70.6	67.7	59.6	73.0	366.8	181.8
Defense Agencies	11.5	30.0	36.0	32.3	24.1	23.0	15.3	20.9	12.3	12.1	20.3
Department of Health, Education, and Welfare	46.7	52.8	31.2	17.4	55.0	41.6	40.9	39.1	33.1	143.3	83.3
Department of the Interior	26.9	14.2	10.6	8.5	13.8	22.0	2.1	3.9	5.9	9.3	.1
Department of Transportation	8.1	5.6	5.5	10.8	25.8	38.2	13.4	13.3	14.2	24.9	21.6
Other Agencies											
Atomic Energy Commission	165.3	302.5	265.9	312.2	246.7	349.1	-----	-----	-----	-----	-----
Energy Research and Development Administration	-----	-----	-----	-----	-----	-----	392.7	392.6	438.8	734.4	845.6
Environmental Protection Agency	-----	-----	2.0	1.1	.7	24.5	1.2	2.1	6.3	5.0	1.1
National Aeronautics and Space Administration	65.0	54.8	33.4	40.2	45.2	69.3	98.4	142.7	82.1	118.1	161.8
National Science Foundation	66.9	26.9	23.3	27.9	18.6	57.1	11.7	23.1	52.6	36.4	45.5
Nuclear Regulatory Commission	-----	-----	-----	-----	-----	-----	3.8	3.0	9.6	8.1	9.3
Veterans Administration	3.3	4.1	2.6	15.0	2.2	10.3	2.1	2.2	11.8	6.9	5.9
All other agencies	.8	.4	.1	10.1	4.2	5.0	10.5	14.3	16.2	18.9	23.4

Source: National Science Foundation

Table C-116. Federal obligations for research and development, by character of work and R&D plant: fiscal years 1968-78

/Millions of dollars/

Fiscal year	Total	Research Basic	Research Applied	Development	R&D plant
1968	16,525	1,721	3,140	11,060	604
1969	16,310	1,779	2,956	10,906	669
1970	15,865	1,762	3,455	10,123	524
1971	16,156	1,779	3,720	10,045	611
1972	17,100	1,974	3,867	10,657	602
1973	17,574	2,001	3,914	10,885	774
1974	18,181	2,039	4,472	10,904	766
1975	19,834	2,279	4,798	11,936	821
1976	21,595	2,425	5,448	12,885	837
1977 (estimated)	26,069	2,755	6,099	15,612	1,604
1978 (estimated)	27,883	3,012	6,479	16,826	1,566

Source: National Science Foundation

Table C-117. Federal obligations for total research, by selected agency: fiscal years 1968-78

/Millions of dollars/

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total	4,861	4,735	5,217	5,500	5,841	5,915	6,510	7,077	7,873	8,853	9,490
Department of Agriculture	239	251	272	292	337	354	365	402	442	501	548
Department of Commerce	56	56	94	114	143	130	129	144	156	175	175
Department of Defense	1,577	1,412	1,557	1,613	1,764	1,755	1,760	1,793	1,788	1,952	2,178
Department of Health, Education, and Welfare	1,147	1,174	1,129	1,302	1,464	1,459	1,852	1,926	2,163	2,430	2,488
Department of the Interior	152	164	122	139	149	160	148	218	241	265	289
Department of Transportation	51	57	83	97	98	77	62	54	31	46	37
Atomic Energy Commission	402	417	433	429	417	425	-	-	-	-	-
Energy Research and Development Administration	-	-	-	-	-	-	465	593	746	880	973
Environmental Protection Agency	-	-	53	54	51	74	96	142	155	215	184
National Aeronautics and Space Administration	857	803	1,030	923	765	794	846	935	1,223	1,310	1,426
National Science Foundation	257	258	275	318	427	464	520	570	596	674	749
Nuclear Regulatory Commission	-	-	-	-	-	-	42	64	88	114	139
Veterans Administration	44	50	58	62	67	70	79	87	85	95	97
All others	79	93	111	157	159	153	146	149	159	196	207

Source: National Science Foundation

Table C-118. Federal obligations for basic research, by selected agency: fiscal years 1968-78

/Millions of dollars/

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total	1,721	1,779	1,762	1,779	1,974	2,001	2,039	2,279	2,425	2,755	3,012
Department of Agriculture	100	107	116	118	137	143	146	154	171	194	213
Department of Defense	263	276	247	262	270	258	244	236	248	275	314
Department of Health, Education, and Welfare	397	371	388	397	461	458	561	592	652	747	773
Atomic Energy Commission	282	285	287	277	268	275	-	-	-	-	-
Energy Research and Development Administration	-	-	-	-	-	-	232	313	346	391	429
National Aeronautics and Space Administration	321	380	358	327	332	350	306	309	293	320	365
National Science Foundation	252	248	245	273	368	392	415	486	524	606	677
All others	106	112	121	125	138	125	135	189	191	222	241

Source: National Science Foundation

Table C-119. Federal obligations for applied research, by selected agency: fiscal years 1968-78

/Millions of dollars/

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total	3,140	2,956	3,455	3,720	3,867	3,914	4,472	4,798	5,448	6,099	6,479
Department of Agriculture	140	145	156	174	200	211	219	248	271	307	335
Department of Commerce	30	29	55	72	99	114	111	124	133	150	150
Department of Defense	1,313	1,135	1,310	1,351	1,493	1,497	1,516	1,558	1,539	1,677	1,864
Department of Health, Education, and Welfare	750	803	741	905	1,003	1,001	1,290	1,334	1,511	1,683	1,716
Department of the Interior	102	109	72	86	92	93	74	108	127	140	142
Department of Transportation	51	57	83	97	98	77	62	54	31	46	37
Atomic Energy Commission	120	132	146	152	149	150	-	-	-	-	-
Energy Research and Development Administration	-	-	-	-	-	-	232	281	401	489	543
Environmental Protection Agency	-	-	48	48	45	65	87	124	142	193	166
National Aeronautics and Space Administration	536	423	673	595	433	444	540	626	930	991	1,061
National Science Foundation	6	11	30	46	60	72	105	84	72	69	72
Nuclear Regulatory Commission	-	-	-	-	-	-	42	64	88	114	139
Veterans Administration	38	43	53	59	64	67	75	83	76	86	87
All others	54	69	88	135	131	123	119	110	127	154	167

Source: National Science Foundation

Table C-120. Federal obligations for development, by selected agency: fiscal years 1968-78

/Millions of dollars/

Agency	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total	11,060	10,906	10,123	10,045	10,657	10,885	10,904	11,936	12,885	15,612	16,826
Department of Defense	6,132	6,284	5,804	5,896	6,554	6,649	6,660	7,219	7,867	9,220	9,930
Atomic Energy Commission	967	989	913	874	881	938	-	-	-	-	-
Energy Research and Development Administration	-	-	-	-	-	-	1,024	1,479	1,752	2,730	3,170
National Aeronautics and Space Administration	3,573	3,161	2,770	2,335	2,393	2,267	2,157	2,129	2,224	2,300	2,421
All others	388	472	636	940	829	1,031	1,063	1,109	1,042	1,362	1,305

Source: National Science Foundation

Table C-121. Federal obligations for research and development, by performer: fiscal years 1968-78

/Millions of dollars/

Performer	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total	15,921	15,641	15,340	15,545	16,498	16,800	17,415	19,013	20,759	24,465	26,317
Federal intramural[a]	3,493	3,503	3,855	4,156	4,482	4,619	4,815	5,397	5,710	6,467	6,548
Industrial firms[b]	9,459	9,131	8,410	8,135	8,352	8,456	8,438	9,117	10,264	12,464	14,069
Universities and colleges	1,482	1,529	1,473	1,644	1,902	1,916	2,215	2,395	2,526	2,851	3,060
FFRDC's administered by universities	611	722	624	729	637	725	706	846	1,061	1,195	1,217
Other nonprofit institutions[b]	723	605	838	677	859	763	962	999	924	1,021	992
All other performers	154	151	140	204	266	321	279	259	275	468	431

[a] Federal intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[b] Includes federally funded research and development centers (FFRDC's) administered by this sector.

Source: National Science Foundation

Table C-122. Federal obligations for total research, by performer: fiscal years 1968-78

/Millions of dollars/

Performer	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates	
										1977	1978
Total	4,861	4,735	5,217	5,500	5,841	5,915	6,510	7,077	7,873	8,853	9,490
Federal intramural[a]	1,551	1,656	1,863	1,899	1,943	2,096	2,309	2,499	2,868	3,162	3,298
Industrial firms[b]	1,169	969	1,226	1,255	1,271	1,283	1,247	1,461	1,547	1,778	2,060
Universities and colleges	1,332	1,359	1,320	1,469	1,650	1,672	1,970	2,105	2,268	2,545	2,719
FFRDC's administered by universities	379	335	383	359	398	355	374	426	549	632	660
Other nonprofit institutions[b]	298	292	306	365	432	381	474	458	500	549	576
All other performers	133	123	120	153	147	128	136	128	141	188	177

[a] Federal intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[b] Includes federally funded research and development centers (FFRDC's) administered by this sector.

Source: National Science Foundation

Table C-123. Federal obligations for basic research, by performer: fiscal years 1968-78

/Millions of dollars/

Performer	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates	
										1977	1978
Total	1,721	1,779	1,762	1,779	1,974	2,001	2,039	2,279	2,425	2,755	3,012
Federal intramural[a]	410	516	541	491	538	537	611	682	719	791	851
Industrial firms[b]	217	211	205	182	166	213	131	138	152	201	250
Universities and colleges	745	740	690	777	901	909	963	1,065	1,137	1,290	1,393
FFRDC's administered by universities	225	219	237	228	254	229	195	258	284	315	347
Other nonprofit institutions[b]	97	71	58	75	89	87	108	112	108	125	131
All other performers	27	22	31	27	27	26	31	24	25	33	34

[a] Federal intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[b] Includes federally funded research and development centers (FFRDC's) administered by this sector.

Source: National Science Foundation

Table C-124. Federal obligations for applied research by performer: fiscal years 1968-78

/Millions of dollars/

Performer	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates	
										1977	1978
Total	3,140	2,956	3,455	3,720	3,867	3,914	4,472	4,798	5,448	6,099	6,479
Federal intramural[a]	1,141	1,140	1,321	1,408	1,405	1,559	1,698	1,817	2,149	2,371	2,446
Industrial firms[b]	951	759	1,021	1,073	1,105	1,071	1,116	1,323	1,395	1,577	1,810
Universities and colleges	587	620	630	692	749	763	1,007	1,039	1,130	1,255	1,321
FFRDC's administered by universities	154	116	146	131	144	126	179	169	265	317	313
Other nonprofit institutions[b]	202	221	247	291	343	294	366	346	392	424	445
All other performers	106	101	90	126	121	101	105	104	116	155	144

[a] Federal intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[b] Includes federally funded research and development centers (FFRDC's) administered by this sector.

Source: National Science Foundation

Table C-125. Federal obligations for development by performer: fiscal years 1968-78

/Millions of dollars/

Performer	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates	
										1977	1978
Total	11,060	10,906	10,123	10,045	10,657	10,885	10,904	11,936	12,885	15,612	16,826
Federal intramural[a]	1,943	1,847	1,993	2,257	2,539	2,523	2,506	2,898	2,842	3,305	3,250
Industrial firms[b]	8,292	8,161	7,189	6,880	7,084	7,173	7,191	7,656	8,717	10,686	12,009
Universities and colleges	150	170	153	175	252	244	245	290	258	306	341
FFRDC's administered by universities	335	387	369	370	362	370	415	509	512	563	557
Other nonprofit institutions[b]	320	313	401	311	301	381	405	452	423	472	416
All other performers	21	28	19	51	119	194	143	131	133	280	254

[a] Federal intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[b] Includes federally funded research and development centers (FFRDC's) administered by this sector.

Source: National Science Foundation

Table C-126. Federal obligations for total research, by field of science: fiscal years 1968-78

/Millions of dollars/

Field of science	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total, all fields	4,861	4,735	5,217	5,500	5,841	5,915	6,510	7,077	7,873	8,853	9,490
Life sciences	1,505	1,462	1,507	1,640	1,904	1,958	2,283	2,450	2,646	2,983	3,105
Psychology	98	101	112	111	121	112	143	145	140	164	178
Physical sciences	1,000	1,002	893	874	966	944	990	1,072	1,221	1,406	1,570
Environmental sciences	390	436	476	527	561	578	634	733	770	852	925
Mathematics and computer sciences	119	113	101	119	136	124	127	136	153	166	184
Engineering	1,503	1,326	1,847	1,824	1,726	1,712	1,883	2,051	2,378	2,602	2,811
Social sciences	194	214	209	304	310	296	291	303	390	457	482
Other sciences	52	80	72	100	116	190	160	187	175	224	235

Source: National Science Foundation

Table C-127. Federal obligations for basic research, by field of science: fiscal years 1968-78

/Millions of dollars/

Field of science	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total, all fields	1,721	1,779	1,762	1,779	1,974	2,001	2,039	2,279	2,425	2,755	3,012
Life sciences	579	539	554	574	668	669	737	797	878	1,007	1,058
Psychology	55	53	56	44	54	46	49	60	44	53	57
Physical sciences	599	662	589	582	625	618	604	702	722	806	911
Environmental sciences	199	235	256	280	291	299	320	339	355	394	438
Mathematics and computer sciences	67	56	58	51	63	57	49	59	70	79	88
Engineering	156	151	180	169	185	204	188	234	240	268	297
Social sciences	61	71	64	70	80	78	73	73	85	102	113
Other sciences	4	11	4	9	9	28	16	15	33	46	49

Source: National Science Foundation

Table C-128. Federal obligations for applied research, by field of science: fiscal years 1968-78

/Millions of dollars/

Field of science	1968	1969	1970	1971	1972	1973	1974	1975	1976	Estimates 1977	Estimates 1978
Total, all fields	3,140	2,956	3,455	3,720	3,867	3,914	4,472	4,798	5,448	6,099	6,479
Life sciences	925	923	953	1,066	1,236	1,289	1,546	1,653	1,768	1,976	2,047
Psychology	44	48	56	67	68	66	93	85	97	112	121
Physical sciences	401	340	304	292	341	326	385	370	499	599	659
Environmental sciences	191	201	221	247	270	279	313	393	416	459	487
Mathematics and computer sciences	53	57	43	68	74	67	77	78	83	86	96
Engineering	1,346	1,175	1,667	1,655	1,540	1,507	1,694	1,817	2,138	2,334	2,514
Social sciences	133	143	144	234	231	218	218	231	305	355	369
Other sciences	47	69	68	91	107	162	144	172	143	178	186

Source: National Science Foundation

Table C-129. Federal obligations for research and development, by geographic division and State: fiscal years 1968-76

[Millions of dollars]

Division and State	1968	1969	1970	1971	1972	1973	1974	1975	1976
United States, total	15,690.2	15,354.6	14,980.8	15,239.8	16,261.8	16,486.1	16,990.7	18,542.9	20,254.6
New England	1,009.4	1,085.7	1,000.8	1,148.8	1,259.8	1,264.4	1,561.8	1,649.5	1,715.5
Connecticut	133.2	223.6	160.0	149.9	169.2	193.9	233.7	269.6	239.4
Maine	6.0	14.3	13.3	13.6	16.3	9.6	10.5	11.4	15.3
Massachusetts	795.7	775.0	760.9	887.0	961.2	953.6	1,188.3	1,228.6	1,284.9
New Hampshire	36.6	31.0	27.3	34.0	21.5	30.6	29.3	33.5	34.6
Rhode Island	31.1	32.8	29.9	50.5	68.9	59.3	74.9	75.0	101.6
Vermont	6.8	9.0	9.5	13.7	22.8	17.5	25.1	31.4	39.5
Middle Atlantic	2,473.4	2,436.1	2,516.9	2,413.5	2,481.0	2,206.7	2,160.2	2,280.0	2,437.6
New Jersey	681.8	708.9	742.5	745.1	763.1	645.2	473.8	441.9	495.6
New York	1,174.9	1,107.0	1,235.6	1,119.5	1,075.6	932.6	1,026.3	1,057.4	1,106.1
Pennsylvania	616.7	620.3	538.8	548.9	642.3	628.8	660.1	780.7	836.0
East North Central	1,294.0	1,044.3	1,038.8	1,121.7	1,179.6	1,082.8	1,263.8	1,375.4	1,437.3
Illinois	239.3	251.2	239.6	249.1	291.0	287.6	325.4	371.1	414.0
Indiana	82.9	108.8	91.9	74.6	100.5	82.9	95.0	92.7	92.3
Michigan	203.4	167.4	162.8	187.3	186.3	153.8	196.6	247.8	221.0
Ohio	653.6	432.6	457.3	518.1	521.7	478.8	567.3	584.8	627.4
Wisconsin	114.8	84.2	87.1	92.6	80.1	79.6	79.6	79.0	82.5
West North Central	321.1	328.5	475.4	786.0	906.0	830.8	607.4	571.2	678.2
Iowa	41.7	34.2	32.7	32.9	37.9	38.5	46.5	47.3	47.9
Kansas	19.8	39.6	16.6	24.3	31.3	30.4	29.4	32.8	32.0
Minnesota	111.1	89.3	109.3	102.8	127.0	120.2	106.9	123.0	153.0
Missouri	121.1	141.9	291.2	596.9	679.5	608.1	387.0	329.1	403.3
Nebraska	15.4	11.3	10.6	10.4	11.7	13.4	14.7	20.0	21.0
North Dakota	6.0	6.8	8.9	9.1	10.5	9.5	10.5	12.6	14.3
South Dakota	6.0	5.4	6.1	9.6	8.1	10.7	12.4	6.4	6.8
South Atlantic	2,819.7	2,961.3	2,899.2	3,224.6	3,560.6	3,706.2	3,752.8	3,989.8	4,224.9
Delaware	13.9	16.1	16.3	13.0	17.4	40.8	10.4	10.0	7.9
District of Columbia	443.2	444.3	468.5	478.2	462.1	490.0	552.3	579.8	570.2
Florida	799.1	884.5	824.8	890.4	1,022.5	952.0	783.2	796.8	788.1
Georgia	280.7	276.8	72.3	78.8	71.9	66.8	70.9	80.8	91.9
Maryland	905.9	961.8	1,063.4	1,201.2	1,318.1	1,434.8	1,528.9	1,609.3	1,810.1
North Carolina	62.4	58.5	63.9	82.7	83.3	101.9	110.0	116.9	139.1
South Carolina	18.7	17.1	17.8	23.4	26.3	23.7	28.8	24.5	30.7
Virginia	275.2	286.3	352.7	424.9	529.6	567.9	642.3	726.0	750.6
West Virginia	20.6	16.0	19.6	32.1	29.4	28.2	25.9	45.7	36.4
East South Central	655.3	597.5	599.7	618.2	638.9	681.5	726.7	770.4	919.5
Alabama	405.7	358.4	357.2	360.0	359.0	376.5	377.4	363.6	374.4
Kentucky	24.1	21.4	20.4	23.0	32.1	38.1	31.3	34.9	50.7
Mississippi	26.5	26.0	28.3	46.7	60.6	57.5	76.3	57.7	71.4
Tennessee	199.1	191.6	193.8	188.5	187.1	209.5	241.7	314.2	423.0
West South Central	1,188.9	894.3	834.9	733.1	798.9	794.0	772.1	872.3	1,019.7
Arkansas	8.1	7.4	9.8	20.8	13.2	16.6	14.2	23.3	26.5
Louisiana	272.4	171.8	146.5	90.1	103.6	91.6	75.7	101.7	125.9
Oklahoma	24.0	20.1	29.5	26.3	29.1	34.8	29.9	34.2	31.7
Texas	884.4	695.0	649.1	595.9	653.0	651.0	652.2	713.1	835.6
Mountain	1,093.6	1,136.7	1,136.8	1,127.4	1,214.4	1,290.6	1,213.0	1,274.2	1,392.8
Arizona	71.4	79.2	72.8	88.7	89.9	94.8	99.5	115.7	121.8
Colorado	265.3	264.4	274.1	264.2	369.1	410.8	323.3	266.6	247.1
Idaho	65.6	69.6	75.0	75.3	75.9	81.8	52.2	66.3	71.7
Montana	8.3	8.3	11.6	17.6	19.0	19.9	13.6	26.5	27.6
Nevada	223.6	232.3	190.9	159.0	140.3	143.1	112.5	149.4	179.0
New Mexico	413.3	426.3	444.1	458.7	451.5	462.8	532.0	554.3	625.8
Utah	39.7	49.8	61.1	55.8	58.9	66.7	68.7	79.4	100.7
Wyoming	6.4	6.8	7.2	8.1	9.9	10.7	11.0	16.0	19.1
Pacific	4,774.3	4,813.5	4,404.1	4,004.9	4,158.2	4,562.0	4,864.3	5,687.8	6,363.8
Alaska	61.8	68.6	43.2	58.2	46.0	41.8	25.3	34.5	35.4
California	4,298.6	4,289.8	3,871.1	3,295.4	3,473.1	3,840.1	4,075.7	4,837.6	5,493.7
Hawaii	35.0	37.7	43.8	38.3	47.4	47.9	53.1	43.0	45.5
Oregon	35.0	36.1	33.8	41.9	53.7	64.3	59.9	78.5	84.1
Washington	343.9	381.2	412.2	571.2	537.9	567.9	650.4	694.2	705.1
Outlying areas	12.8	11.6	17.3	18.6	18.4	19.7	19.6	28.7	22.3
Offices abroad	47.6	45.1	56.8	42.9	46.1	24.1	49.1	43.9	43.0

NOTE: The obligations of the R&D-support agencies included in this table represent more than 97 percent of the total Federal R&D obligations throughout the 1968-76 period.

SOURCE: National Science Foundation

Table C-130. Federal obligations for R&D plant, by geographic division and State: fiscal years 1968-76

[Millions of dollars]

Division and State	1968	1969	1970	1971	1972	1973	1974	1975	1976
United States, total	599.8	663.6	519.6	586.0	595.6	757.5	749.8	801.0	799.2
New England	55.9	28.3	15.0	15.7	24.5	15.5	17.7	22.7	22.4
Connecticut	8.8	1.4	2.8	1.5	2.7	2.4	5.2	3.8	1.9
Maine	.1	.1	.1	——	.4	*	.2	*	*
Massachusetts	45.2	25.5	10.7	9.7	16.1	8.4	9.5	11.0	14.0
New Hampshire	.6	.1	*	2.0	1.5	.4	1.1	2.9	2.0
Rhode Island	.9	.9	1.3	2.1	2.8	4.2	.7	4.9	4.5
Vermont	.2	.4	*	.4	1.1	.1	1.0	——	——
Middle Atlantic	73.6	76.1	51.5	55.7	74.1	99.7	101.4	76.8	70.6
New Jersey	11.7	7.8	5.6	5.0	14.9	5.3	2.5	11.5	22.1
New York	43.7	43.7	26.7	33.9	21.9	81.8	77.1	46.4	37.5
Pennsylvania	18.2	24.6	19.2	16.8	37.3	12.6	21.8	18.9	11.0
East North Central	62.1	86.4	119.9	100.1	85.5	129.7	69.7	48.3	66.5
Illinois	31.4	42.0	94.7	85.2	68.1	84.3	42.9	29.6	45.2
Indiana	3.6	.9	.4	.8	.5	.3	.1	.1	.8
Michigan	3.3	5.1	3.8	.9	2.9	4.8	.2	.6	2.0
Ohio	20.7	32.8	20.3	10.1	13.0	39.1	19.6	15.1	13.6
Wisconsin	3.1	5.7	.6	3.1	1.0	1.1	6.9	2.9	4.9
West North Central	14.2	12.7	9.3	10.8	8.1	4.7	26.9	5.8	3.6
Iowa	7.3	1.8	1.2	1.5	.8	1.1	.5	.7	1.1
Kansas	.7	3.9	.1	.2	.1	.2	.1	*	.1
Minnesota	3.3	1.1	.8	4.1	1.3	.5	23.4	.1	.5
Missouri	.7	1.3	4.2	2.2	.7	.3	.8	4.1	.5
Nebraska	1.1	3.5	.9	1.2	1.6	1.0	1.5	.4	1.0
North Dakota	.5	.6	.1	.1	.5	.1	.2	.4	.5
South Dakota	.8	.5	2.1	1.5	3.1	1.5	.4	——	——
South Atlantic	157.2	115.7	72.3	77.0	114.1	142.9	140.5	173.7	166.9
Delaware	5	*	*	——	*	*	.1	.1	——
District of Columbia	14.5	8.3	6.4	5.1	9.0	31.5	1.1	7.9	21.4
Florida	76.9	57.5	33.2	30.8	47.7	40.1	51.7	96.0	76.3
Georgia	4.0	2.3	2.0	2.3	1.8	.7	.1	.5	.2
Maryland	36.6	30.6	20.3	29.7	36.1	51.4	60.8	40.1	36.7
North Carolina	3.6	4.5	3.1	.4	6.0	4.8	4.1	.3	.6
South Carolina	1.5	3.2	1.8	1.3	1.2	3.4	7.7	3.8	3.3
Virginia	15.8	4.0	3.5	7.0	11.3	7.0	14.0	23.1	11.6
West Virginia	3.7	5.3	1.9	.4	.9	4.2	.8	1.9	16.7
East South Central	18.0	30.7	16.8	18.3	27.7	55.4	54.7	52.5	76.9
Alabama	2.2	6.2	1.8	3.9	6.7	5.1	5.6	8.4	12.3
Kentucky	3	.4	.8	.3	.1	*	.2	——	——
Mississippi	3.7	.2	.8	.4	.4	13.0	15.2	4.8	4.1
Tennessee	11.7	24.0	13.4	13.7	20.5	37.4	33.6	39.3	60.5
West South Central	17.3	8.0	9.4	11.7	11.2	11.9	8.2	8.9	11.1
Arkansas	.2	——	.1	*	.1	.2	.4	.7	.9
Louisiana	1.5	.5	1.1	5.1	.5	.4	1.6	.3	2.3
Oklahoma	.2	.9	.1	.1	.2	.1	.1	.3	.2
Texas	15.3	6.5	8.1	6.5	10.4	11.1	6.1	7.6	7.8
Mountain	77.8	135.3	112.4	102.4	84.1	95.5	86.2	104.9	123.8
Arizona	10.9	2.0	1.6	1.3	2.3	.5	3.6	1.3	2.7
Colorado	2.8	4.3	5.2	8.2	16.2	21.9	7.9	4.9	12.0
Idaho	8.8	31.0	23.0	20.3	5.4	6.3	11.0	16.2	19.7
Montana	.2	.5	*	.5	.1	.1	.1	.3	.1
Nevada	11.0	17.1	17.2	16.9	17.5	14.4	9.2	11.7	11.7
New Mexico	43.2	77.5	63.6	54.1	41.6	51.6	50.3	68.1	76.6
Utah	.3	2.9	1.0	.6	1.0	.5	4.1	2.1	.8
Wyoming	1	.1	.6	.4	*	.2	*	.3	.2
Pacific	114.9	145.0	104.4	178.3	156.3	176.7	243.8	305.9	256.1
Alaska	2.1	3.0	.5	1.4	.7	.5	.1	.9	.8
California	92.2	121.2	85.9	119.8	123.4	128.0	141.1	151.1	147.3
Hawaii	3.7	.8	.5	2.2	.9	.4	.4	6.2	2.8
Oregon	2.4	1.5	2.3	1.2	1.2	.1	1	1.2	2.0
Washington	14.6	18.6	15.3	53.7	30.2	47.8	102.1	146.5	103.1
Outlying areas	7.2	4.6	3.5	5.2	1.8	1.4	.6	.5	.3
Offices abroad	1.6	20.7	5.3	10.8	8.2	24.1	2	1.1	1.0

NOTE: The obligations of the R&D-plant-support agencies included in this table represent more than 96 percent of total Federal R&D plant obligations throughout the 1968-76 period.

SOURCE: National Science Foundation

APPENDIX D

Statistical Tables
Part II

Federal Funds for Scientific and Technical Information

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NOTES

- Estimates for 1978 are based on *The Budget of the United States Government, Fiscal Year 1978*, as submitted to Congress, and do not reflect subsequent appropriations and apportionment actions.
- Obligations reported for extramural performance are limited to contracts or grants that have as their primary purpose the accomplishment of scientific or technical information functions. Obligations are excluded for information acctivities that supplement or support work under R&D contracts or grants.
- Obligations for research and development in information sciences, documentation and information systems, techniques and devices are also reported as part of R&D obligations in part I.
- Defense Agencies include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Supply Agency, the Defense Communications Agency, and the Defense Logistics Agency.

TABLE D-1. SUMMARY OF FEDERAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

ACTIVITY	ACTUAL, 1976			ESTIMATES					
				1977			1978		
	TOTAL	INTRA-MURAL	EXTRA-MURAL	TOTAL	INTRA-MURAL	EXTRA-MURAL	TOTAL	INTRA-MURAL	EXTRA-MURAL
TOTAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION	468,902	329,735	139,167	508,132	359,222	148,910	529,871	369,933	159,938
PUBLICATION AND DISTRIBUTION	144,740	121,377	23,363	155,829	130,592	25,237	161,106	134,387	26,719
PRIMARY PUBLICATION AND DISTRIBUTION	76,933	64,524	12,409	83,625	69,886	13,739	87,965	73,535	14,430
PATENT EXAMINATION	48,482	48,449	33	51,524	51,485	39	51,321	51,281	40
SECONDARY AND TERTIARY PUBLICATION AND DISTRIBUTION	11,544	4,026	7,518	11,994	4,269	7,725	12,613	4,350	8,263
SUPPORT OF PUBLICATIONS	7,781	4,378	3,403	8,686	4,952	3,734	9,207	5,221	3,986
DOCUMENTATION, REFERENCE AND INFORMATION SERVICES	226,612	175,383	51,229	253,934	193,371	60,563	262,873	199,680	63,193
LIBRARY, REFERENCE, AND REFERRAL	140,710	119,147	21,563	156,422	131,406	25,016	162,941	136,725	26,216
NETWORKING FOR LIBRARIES AND DOCUMENTATION CENTERS	4,729	2,981	1,748	4,836	2,500	2,336	6,787	4,233	2,554
SPECIALIZED INFORMATION CENTERS	78,371	51,796	26,575	87,524	57,793	29,731	88,736	57,153	31,583
NETWORKING FOR SPECIALIZED INFORMATION CENTERS	819	657	162	1,283	837	446	914	751	163
TRANSLATIONS	1,983	802	1,181	3,869	835	3,034	3,495	818	2,677
SYMPOSIA AND AUDIOVISUAL MEDIA	27,893	20,641	7,252	29,883	21,920	7,963	31,634	23,058	8,576
SYMPOSIA AND TECHNICAL MEETINGS	17,819	12,103	5,716	19,261	13,078	6,183	20,596	13,831	6,765
AUDIOVISUAL MEDIA AND OTHER FORMS OF NONPRINTED COMMUNICATION	10,074	8,538	1,536	10,622	8,842	1,780	11,038	9,227	1,811
RESEARCH AND DEVELOPMENT IN INFORMATION SCIENCES, DOCUMENTATION AND INFORMATION SYSTEMS, TECHNIQUES AND DEVICES	69,657	12,334	57,323	68,486	13,339	55,147	74,258	12,808	61,450

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-2. FEDERAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1976	ESTIMATES	
		1977	1978
TOTAL, ALL AGENCIES	468,902	508,132	529,871
DEPARTMENTS			
DEPARTMENT OF AGRICULTURE, TOTAL	15,979	18,319	19,087
AGRICULTURAL RESEARCH SERVICE	3,944	4,971	4,753
COOPERATIVE STATE RESEARCH SERVICE	390	327	326
ECONOMIC RESEARCH SERVICE	1,074	1,074	1,074
FARMER COOPERATIVE SERVICE	94	93	100
FOREST SERVICE	4,932	5,613	5,948
NATIONAL AGRICULTURAL LIBRARY	5,539	6,235	6,880
STATISTICAL REPORTING SERVICE	6	6	6
DEPARTMENT OF COMMERCE, TOTAL	109,206	117,525	118,696
BUREAU OF THE CENSUS	607	648	680
NATIONAL BUREAU OF STANDARDS	9,054	9,668	9,881
NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION	70	75	75
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	5,579	6,636	6,194
NATIONAL TECHNICAL INFORMATION SERVICE	13,470	14,974	16,686
OFFICE OF TELECOMMUNICATIONS	154	175	128
PATENT AND TRADEMARK OFFICE	80,272	85,349	85,052
DEPARTMENT OF DEFENSE, TOTAL	132,828	137,377	146,268
DEPARTMENT OF THE ARMY	45,836	47,962	48,824
DEPARTMENT OF THE NAVY	18,704	21,322	23,057
DEPARTMENT OF THE AIR FORCE	12,725	13,488	15,205
DEFENSE AGENCIES	55,563	54,585	59,182
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	84,395	96,895	102,227
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	5,118	4,625	4,628
CENTER FOR DISEASE CONTROL	2,512	2,659	2,780
FOOD AND DRUG ADMINISTRATION	3,820	4,360	4,360
HEALTH RESOURCES ADMINISTRATION	156	186	194
NATIONAL INSTITUTE OF EDUCATION	4,476	4,696	5,050
NATIONAL INSTITUTES OF HEALTH	67,764	79,772	84,571
SOCIAL SECURITY ADMINISTRATION	549	597	644
DEPARTMENT OF THE INTERIOR, TOTAL	27,076	31,441	32,181
BUREAU OF MINES	875	1,000	1,000
BUREAU OF OUTDOOR RECREATION	50	50	50
BUREAU OF RECLAMATION	698	813	878
GEOLOGICAL SURVEY	21,058	25,136	25,484
NATIONAL PARK SERVICE	242	283	270
NATIONAL RESOURCES LIBRARY	2,067	1,884	2,224
OFFICE OF WATER RESEARCH AND TECHNOLOGY	986	1,100	1,100
UNITED STATES FISH AND WILDLIFE SERVICE	1,100	1,175	1,175
DEPARTMENT OF JUSTICE, TOTAL	2,670	2,882	3,369
BUREAU OF PRISONS	-	77	409
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	2,670	2,805	2,960
DEPARTMENT OF LABOR, TOTAL	539	595	409
EMPLOYMENT AND TRAINING ADMINISTRATION	522	532	382
OFFICE OF THE SECRETARY	17	63	27
DEPARTMENT OF STATE, TOTAL	2,142	2,755	2,985
DEPARTMENTAL FUNDS	217	235	240
AGENCY FOR INTERNATIONAL DEVELOPMENT	1,925	2,520	2,745
DEPARTMENT OF TRANSPORTATION, TOTAL	3,903	4,190	4,200
FEDERAL AVIATION ADMINISTRATION	143	190	190
FEDERAL HIGHWAY ADMINISTRATION	385	430	430
FEDERAL RAILROAD ADMINISTRATION	110	90	100
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	935	1,055	1,055
OFFICE OF THE SECRETARY	1,745	1,775	1,775
UNITED STATES COAST GUARD	435	500	500
URBAN MASS TRANSPORTATION ADMINISTRATION	150	150	150
OTHER AGENCIES			
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	200	235	226
CONSUMER PRODUCT SAFETY COMMISSION	1,642	1,695	1,339
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	6,431	8,175	9,265
ENVIRONMENTAL PROTECTION AGENCY	3,820	4,195	4,195
FEDERAL COMMUNICATIONS COMMISSION	20	20	20
FEDERAL HOME LOAN BANK BOARD	25	28	29
LIBRARY OF CONGRESS	34,907	37,073	38,416
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	23,240	23,746	25,693
NATIONAL SCIENCE FOUNDATION	6,805	7,105	6,925
NUCLEAR REGULATORY COMMISSION	481	624	702
OFFICE OF TELECOMMUNICATIONS POLICY	94	141	105
SMITHSONIAN INSTITUTION	5,660	6,225	6,441
TENNESSEE VALLEY AUTHORITY	139	166	187
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	10	10	11
VETERANS ADMINISTRATION	6,690	6,795	6,895

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-3. FEDERAL INTRAMURAL AND EXTRAMURAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION, BY AGENCY: FISCAL YEARS 1976, 1977, AND 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	INTRAMURAL			EXTRAMURAL		
	ACTUAL, 1976	ESTIMATES		ACTUAL, 1976	ESTIMATES	
		1977	1978		1977	1978
TOTAL, ALL AGENCIES	329,735	359,222	369,933	139,167	148,910	159,938
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	15,248	16,660	17,680	731	1,659	1,407
AGRICULTURAL RESEARCH SERVICE	3,644	3,769	3,803	300	1,202	950
COOPERATIVE STATE RESEARCH SERVICE	390	327	326	-	-	-
ECONOMIC RESEARCH SERVICE	1,074	1,074	1,074	-	-	-
FARMER COOPERATIVE SERVICE	94	93	100	-	-	-
FOREST SERVICE	4,932	5,613	5,948	-	-	-
NATIONAL AGRICULTURAL LIBRARY	5,106	5,778	6,423	431	457	457
STATISTICAL REPORTING SERVICE	6	6	6	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	107,253	114,997	116,401	1,953	2,528	2,295
BUREAU OF THE CENSUS	586	628	658	21	20	22
NATIONAL BUREAU OF STANDARDS	8,508	9,095	9,301	546	573	580
NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION	70	75	75	-	-	-
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	4,203	4,713	4,515	1,376	1,923	1,679
NATIONAL TECHNICAL INFORMATION SERVICE	13,470	14,974	16,686	-	-	-
OFFICE OF TELECOMMUNICATIONS	144	163	114	10	12	14
PATENT AND TRADEMARK OFFICE	80,272	85,349	85,052	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	74,606	81,137	83,878	58,222	56,240	62,390
DEPARTMENT OF THE ARMY	44,239	46,105	46,882	1,597	1,877	1,942
DEPARTMENT OF THE NAVY	9,717	10,741	11,438	8,987	10,581	11,619
DEPARTMENT OF THE AIR FORCE	8,565	9,628	11,044	4,160	3,860	4,161
DEFENSE AGENCIES	12,085	14,663	14,514	43,478	39,922	44,668
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	36,058	41,408	43,166	48,337	55,487	59,061
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION	1,594	1,234	1,283	3,524	3,391	3,345
CENTER FOR DISEASE CONTROL	2,009	2,070	2,119	503	589	661
FOOD AND DRUG ADMINISTRATION	2,544	3,100	3,100	1,276	1,260	1,260
HEALTH RESOURCES ADMINISTRATION	156	186	194	-	-	-
NATIONAL INSTITUTE OF EDUCATION	-	-	-	4,476	4,696	5,050
NATIONAL INSTITUTES OF HEALTH	29,206	34,221	35,826	38,558	45,551	48,745
SOCIAL SECURITY ADMINISTRATION	549	597	644	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	26,385	30,646	31,354	691	795	827
BUREAU OF MINES	875	1,000	1,000	-	-	-
BUREAU OF OUTDOOR RECREATION	50	50	50	-	-	-
BUREAU OF RECLAMATION	678	770	810	20	43	68
GEOLOGICAL SURVEY	21,058	25,136	25,484	-	-	-
NATIONAL PARK SERVICE	134	171	156	108	112	114
NATIONAL RESOURCES LIBRARY	2,067	1,884	2,224	-	-	-
OFFICE OF WATER RESEARCH AND TECHNOLOGY	673	730	730	313	370	370
UNITED STATES FISH AND WILDLIFE SERVICE	850	905	900	250	270	275
DEPARTMENT OF JUSTICE, TOTAL	665	677	1,129	2,005	2,205	2,240
BUREAU OF PRISONS	-	77	409	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	665	600	720	2,005	2,205	2,240
DEPARTMENT OF LABOR, TOTAL	452	506	356	87	89	53
EMPLOYMENT AND TRAINING ADMINISTRATION	435	443	329	87	89	53
OFFICE OF THE SECRETARY	17	63	27	-	-	-
DEPARTMENT OF STATE, TOTAL	1,877	2,135	2,140	265	620	845
DEPARTMENTAL FUNDS	217	235	240	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	1,660	1,900	1,900	265	620	845
DEPARTMENT OF TRANSPORTATION, TOTAL	1,880	1,940	1,940	2,023	2,250	2,260
FEDERAL AVIATION ADMINISTRATION	83	120	120	60	70	70
FEDERAL HIGHWAY ADMINISTRATION	155	170	170	230	260	260
FEDERAL RAILROAD ADMINISTRATION	-	-	-	110	90	100
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	20	35	35	915	1,020	1,020
OFFICE OF THE SECRETARY	1,462	1,465	1,465	283	310	310
UNITED STATES COAST GUARD	110	100	100	225	400	400
URBAN MASS TRANSPORTATION ADMINISTRATION	50	50	50	100	100	100
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	200	235	226	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,354	1,463	1,217	288	142	122
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION	3,997	4,235	4,738	2,434	3,940	4,527
ENVIRONMENTAL PROTECTION AGENCY	3,231	3,583	3,583	589	612	612
FEDERAL COMMUNICATIONS COMMISSION	20	20	20	-	-	-
FEDERAL HOME LOAN BANK BOARD	25	28	29	-	-	-
LIBRARY OF CONGRESS	34,907	37,073	38,416	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	10,038	10,211	10,995	13,202	13,535	14,698
NATIONAL SCIENCE FOUNDATION	536	419	456	6,269	6,686	6,469
NUCLEAR REGULATORY COMMISSION	445	584	642	36	50	60
OFFICE OF TELECOMMUNICATIONS POLICY	75	126	90	19	15	15
SMITHSONIAN INSTITUTION	3,720	4,248	4,464	1,940	1,977	1,977
TENNESSEE VALLEY AUTHORITY	139	166	187	-	-	-
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	10	10	11	-	-	-
VETERANS ADMINISTRATION	6,614	6,715	6,815	76	80	80

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-4. FEDERAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION, BY AGENCY AND ACTIVITY: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	PUBLICATION AND DISTRIBUTION	DOCUMENTATION, REFERENCE, AND INFORMATION SERVICES	SYMPOSIA AND AUDIOVISUAL MEDIA	RESEARCH AND DEVELOPMENT IN INFORMATION SCIENCES
TOTAL, ALL AGENCIES	468,902	144,740	226,612	27,893	69,657
DEPARTMENTS					
DEPARTMENT OF AGRICULTURE, TOTAL	15,979	5,694	7,263	3,014	8
AGRICULTURAL RESEARCH SERVICE	3,944	2,060	1,113	771	-
COOPERATIVE STATE RESEARCH SERVICE	390	41	-	349	-
ECONOMIC RESEARCH SERVICE	1,074	945	50	79	-
FARMER COOPERATIVE SERVICE	94	94	-	-	-
FOREST SERVICE	4,932	2,501	633	1,798	-
NATIONAL AGRICULTURAL LIBRARY	5,539	49	5,467	15	8
STATISTICAL REPORTING SERVICE	6	4	-	2	-
DEPARTMENT OF COMMERCE, TOTAL	109,206	76,519	27,209	1,637	3,841
BUREAU OF THE CENSUS	607	32	239	61	275
NATIONAL BUREAU OF STANDARDS	9,054	1,039	4,081	1,121	2,813
NATIONAL FIRE PREV & CONTROL ADMIN	70	-	70	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	5,579	2,614	2,189	452	324
NATIONAL TECHNICAL INFO SERVICE	13,470	12,098	1,372	-	-
OFFICE OF TELECOMMUNICATIONS	154	96	-	3	55
PATENT & TRADEMARK OFFICE	80,272	60,640	19,258	-	374
DEPARTMENT OF DEFENSE, TOTAL	132,828	18,167	61,379	10,277	43,005
DEPARTMENT OF THE ARMY	45,836	7,255	36,188	2,360	33
DEPARTMENT OF THE NAVY	18,704	6,415	6,156	3,943	2,190
DEPARTMENT OF THE AIR FORCE	12,725	2,873	3,750	3,448	2,654
DEFENSE AGENCIES	55,563	1,624	15,285	526	38,128
DEPT OF HEALTH, ED, & WELFARE, TOTAL	84,395	11,882	53,204	6,706	12,603
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	5,118	1,624	3,069	345	80
CENTER FOR DISEASE CONTROL	2,512	1,031	1,052	429	-
FOOD AND DRUG ADMINISTRATION	3,820	1,245	2,113	462	-
HEALTH RESOURCES ADMINISTRATION	156	125	16	15	-
NATIONAL INSTITUTE OF EDUCATION	4,476	-	4,476	-	-
NATIONAL INSTITUTES OF HEALTH	67,764	7,318	42,478	5,445	12,523
SOCIAL SECURITY ADMINISTRATION	549	539	-	10	-
DEPARTMENT OF THE INTERIOR, TOTAL	27,076	10,745	14,692	1,078	561
BUREAU OF MINES	875	565	250	60	-
BUREAU OF OUTDOOR RECREATION	50	-	50	-	-
BUREAU OF RECLAMATION	698	240	263	195	-
GEOLOGICAL SURVEY	21,058	9,139	10,700	658	561
NATIONAL PARK SERVICE	242	222	20	-	-
NATIONAL RESOURCES LIBRARY	2,067	24	2,028	15	-
OFFICE OF WATER RES AND TECHNOLOGY	986	-	986	-	-
US FISH AND WILDLIFE SERVICE	1,100	555	395	150	-
DEPARTMENT OF JUSTICE, TOTAL	2,670	620	2,050	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,670	620	2,050	-	-
DEPARTMENT OF LABOR, TOTAL	539	377	89	23	50
EMPLOYMENT AND TRAINING ADMIN	522	372	82	18	50
OFFICE OF THE SECRETARY	17	5	7	5	-
DEPARTMENT OF STATE, TOTAL	2,142	265	1,877	-	-
DEPARTMENTAL FUNDS	217	-	217	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	1,925	265	1,660	-	-
DEPT OF TRANSPORTATION, TOTAL	3,903	140	3,728	35	-
FEDERAL AVIATION ADMINISTRATION	143	15	123	5	-
FEDERAL HIGHWAY ADMINISTRATION	385	30	340	15	-
FEDERAL RAILROAD ADMINISTRATION	110	-	110	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	935	25	910	-	-
OFFICE OF THE SECRETARY	1,745	20	1,725	-	-
US COAST GUARD	435	-	435	-	-
URBAN MASS TRANSPORTATION ADMIN	150	50	85	15	-
OTHER AGENCIES					
ADV COMM ON INTERGOVERNMNTL RELATIONS	200	164	30	6	-
CONSUMER PRODUCT SAFETY COMMISSION	1,642	186	1,426	30	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	6,431	2,944	3,487	-	-
ENVIRONMENTAL PROTECTION AGENCY	3,820	1,517	2,012	291	-
FEDERAL COMMUNICATIONS COMMISSION	20	6	6	8	-
FEDERAL HOME LOAN BANK BOARD	25	-	25	-	-
LIBRARY OF CONGRESS	34,907	-	31,944	-	2,963
NATIONAL AERONAUTICS & SPACE ADMIN	23,240	13,265	7,662	1,933	380
NATIONAL SCIENCE FOUNDATION	6,805	187	616	216	5,786
NUCLEAR REGULATORY COMMISSION	481	214	267	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	94	26	49	19	-
SMITHSONIAN INSTITUTION	5,660	1,152	4,103	255	150
TENNESSEE VALLEY AUTHORITY	139	-	139	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	10	5	5	-	-
VETERANS ADMINISTRATION	6,690	665	3,350	2,365	310

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-5. FEDERAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION, BY AGENCY AND ACTIVITY: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	PUBLICATION AND DISTRIBUTION	DOCUMENTATION, REFERENCE, AND INFORMATION SERVICES	SYMPOSIA AND AUDIOVISUAL MEDIA	RESEARCH AND DEVELOPMENT IN INFORMATION SCIENCES
TOTAL, ALL AGENCIES	538,132	155,829	253,934	29,883	68,486
DEPARTMENTS					
DEPARTMENT OF AGRICULTURE, TOTAL	18,319	6,072	9,011	3,236	-
AGRICULTURAL RESEARCH SERVICE	4,971	2,131	2,343	797	-
COOPERATIVE STATE RESEARCH SERVICE	327	27	-	300	-
ECONOMIC RESEARCH SERVICE	1,074	945	50	79	-
FARMER COOPERATIVE SERVICE	93	93	-	-	-
FOREST SERVICE	5,613	2,831	747	2,035	-
NATIONAL AGRICULTURAL LIBRARY	6,235	41	6,171	23	-
STATISTICAL REPORTING SERVICE	6	4	-	2	-
DEPARTMENT OF COMMERCE, TOTAL	117,525	82,287	29,136	1,784	4,318
BUREAU OF THE CENSUS	648	40	253	65	290
NATIONAL BUREAU OF STANDARDS	9,668	1,102	4,222	1,169	3,175
NATIONAL FIRE PREV & CONTROL ADMIN	75	-	75	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	6,636	3,043	2,716	542	335
NATIONAL TECHNICAL INFO SERVICE	14,974	13,362	1,612	-	-
OFFICE OF TELECOMMUNICATIONS	175	96	-	8	71
PATENT & TRADEMARK OFFICE	85,349	64,644	20,258	-	447
DEPARTMENT OF DEFENSE, TOTAL	137,377	20,180	67,597	11,144	38,456
DEPARTMENT OF THE ARMY	47,982	7,654	37,938	2,358	32
DEPARTMENT OF THE NAVY	21,322	7,734	6,787	4,755	2,046
DEPARTMENT OF THE AIR FORCE	13,488	3,268	4,704	3,550	1,966
DEFENSE AGENCIES	54,585	1,524	18,168	481	34,412
DEPT OF HEALTH, ED. & WELFARE, TOTAL	96,895	12,523	61,069	7,083	16,220
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	4,625	1,625	2,455	495	50
CENTER FOR DISEASE CONTROL	2,659	1,076	1,116	467	-
FOOD AND DRUG ADMINISTRATION	4,360	1,270	2,650	440	-
HEALTH RESOURCES ADMINISTRATION	186	149	19	18	-
NATIONAL INSTITUTE OF EDUCATION	4,696	-	4,696	-	-
NATIONAL INSTITUTES OF HEALTH	79,772	7,816	50,133	5,653	16,170
SOCIAL SECURITY ADMINISTRATION	597	587	-	10	-
DEPARTMENT OF THE INTERIOR, TOTAL	31,441	11,751	17,836	1,219	635
BUREAU OF MINES	1,000	655	275	70	-
BUREAU OF OUTDOOR RECREATION	50	-	50	-	-
BUREAU OF RECLAMATION	813	280	303	230	-
GEOLOGICAL SURVEY	25,136	9,928	13,851	722	635
NATIONAL PARK SERVICE	283	268	15	-	-
NATIONAL RESOURCES LIBRARY	1,884	25	1,842	17	-
OFFICE OF WATER RES AND TECHNOLOGY	1,130	-	1,130	-	-
US FISH AND WILDLIFE SERVICE	1,175	595	400	180	-
DEPARTMENT OF JUSTICE, TOTAL	2,882	555	2,327	-	-
BUREAU OF PRISONS	77	-	77	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,805	555	2,250	-	-
DEPARTMENT OF LABOR, TOTAL	595	401	95	48	51
EMPLOYMENT AND TRAINING ADMIN	532	378	85	18	51
OFFICE OF THE SECRETARY	63	23	10	30	-
DEPARTMENT OF STATE, TOTAL	2,755	320	2,435	-	-
DEPARTMENTAL FUNDS	235	-	235	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	2,520	320	2,200	-	-
DEPT OF TRANSPORTATION, TOTAL	4,190	170	3,975	45	-
FEDERAL AVIATION ADMINISTRATION	190	30	150	10	-
FEDERAL HIGHWAY ADMINISTRATION	430	35	375	20	-
FEDERAL RAILROAD ADMINISTRATION	90	-	[illegible]	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,055	30	1,025	-	-
OFFICE OF THE SECRETARY	1,775	25	1,750	-	-
US COAST GUARD	500	-	500	-	-
URBAN MASS TRANSPORTATION ADMIN	150	50	85	15	-
OTHER AGENCIES					
ADV COMM ON INTERGOVERNMNTL RELATIONS	235	188	32	15	-
CONSUMER PRODUCT SAFETY COMMISSION	1,605	-	1,575	30	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	8,175	3,458	4,648	69	-
ENVIRONMENTAL PROTECTION AGENCY	4,195	1,640	2,270	285	-
FEDERAL COMMUNICATIONS COMMISSION	20	6	6	8	-
FEDERAL HOME LOAN BANK BOARD	28	-	28	-	-
LIBRARY OF CONGRESS	37,073	-	34,002	-	3,071
NATIONAL AERONAUTICS & SPACE ADMIN	23,746	13,701	7,729	1,959	357
NATIONAL SCIENCE FOUNDATION	7,105	291	1,648	248	4,918
NUCLEAR REGULATORY COMMISSION	634	243	391	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	141	30	60	51	-
SMITHSONIAN INSTITUTION	6,225	1,333	4,493	249	150
TENNESSEE VALLEY AUTHORITY	166	-	166	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	10	5	5	-	-
VETERANS ADMINISTRATION	6,795	675	3,400	2,410	310

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE I-6. FEDERAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION, BY AGENCY AND ACTIVITY: FISCAL YEAR 1976 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	PUBLICATION AND DISTRIBUTION	DOCUMENTATION, REFERENCE, AND INFORMATION SERVICES	SYMPOSIA AND AUDIOVISUAL MEDIA	RESEARCH AND DEVELOPMENT IN INFORMATION SCIENCES
TOTAL, ALL AGENCIES	529,871	161,106	262,873	31,634	74,258
DEPARTMENTS					
DEPARTMENT OF AGRICULTURE, TOTAL	19,087	6,253	9,480	3,354	-
AGRICULTURAL RESEARCH SERVICE	4,753	2,151	1,798	804	-
COOPERATIVE STATE RESEARCH SERVICE	326	26	-	300	-
ECONOMIC RESEARCH SERVICE	1,074	945	50	79	-
FARMER COOPERATIVE SERVICE	100	100	-	-	-
FOREST SERVICE	5,948	2,985	817	2,146	-
NATIONAL AGRICULTURAL LIBRARY	6,880	42	6,815	23	-
STATISTICAL REPORTING SERVICE	6	4	-	2	-
DEPARTMENT OF COMMERCE, TOTAL	118,696	83,672	29,084	1,847	4,093
BUREAU OF THE CENSUS	680	45	265	70	300
NATIONAL BUREAU OF STANDARDS	9,881	1,176	4,356	1,245	3,104
NATIONAL FIRE PREV & CONTROL ADMIN	75	-	75	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	6,194	3,043	2,389	520	242
NATIONAL TECHNICAL INFO SERVICE	16,686	14,902	1,784	-	-
OFFICE OF TELECOMMUNICATIONS	128	116	-	12	-
PATENT & TRADEMARK OFFICE	85,052	64,390	20,215	-	447
DEPARTMENT OF DEFENSE, TOTAL	146,268	21,372	69,048	11,959	43,889
DEPARTMENT OF THE ARMY	48,824	7,742	38,590	2,460	32
DEPARTMENT OF THE NAVY	23,057	8,524	7,286	5,241	2,006
DEPARTMENT OF THE AIR FORCE	15,205	3,470	5,395	3,809	2,531
DEFENSE AGENCIES	59,182	1,636	17,777	449	39,320
DEPT OF HEALTH, ED, & WELFARE, TOTAL	102,227	13,227	64,954	7,553	16,493
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	4,628	1,646	2,385	502	95
CENTER FOR DISEASE CONTROL	2,780	1,081	1,164	535	-
FOOD AND DRUG ADMINISTRATION	4,360	1,270	2,650	440	-
HEALTH RESOURCES ADMINISTRATION	194	155	20	19	-
NATIONAL INSTITUTE OF EDUCATION	5,050	-	5,050		-
NATIONAL INSTITUTES OF HEALTH	84,571	8,441	53,685	6,047	16,398
SOCIAL SECURITY ADMINISTRATION	644	634	-	10	-
DEPARTMENT OF THE INTERIOR, TOTAL	32,181	12,080	18,201	1,255	645
BUREAU OF MINES	1,000	655	275	70	-
BUREAU OF OUTDOOR RECREATION	50	-	50	-	-
BUREAU OF RECLAMATION	878	305	318	255	-
GEOLOGICAL SURVEY	25,484	10,230	13,874	735	645
NATIONAL PARK SERVICE	270	260	10	-	-
NATIONAL RESOURCES LIBRARY	2,224	30	2,174	20	-
OFFICE OF WATER RES AND TECHNOLOGY	1,100	-	1,100	-	-
US FISH AND WILDLIFE SERVICE	1,175	600	400	175	-
DEPARTMENT OF JUSTICE, TOTAL	3,369	670	2,699	-	-
BUREAU OF PRISONS	409	-	409	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,960	670	2,290	-	-
DEPARTMENT OF LABOR, TOTAL	409	300	61	18	30
EMPLOYMENT AND TRAINING ADMIN	382	290	51	11	30
OFFICE OF THE SECRETARY	27	10	10	7	-
DEPARTMENT OF STATE, TOTAL	2,985	345	2,640	-	-
DEPARTMENTAL FUNDS	240	-	240	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	2,745	345	2,400	-	-
DEPT OF TRANSPORTATION, TOTAL	4,200	170	3,985	45	-
FEDERAL AVIATION ADMINISTRATION	190	30	150	10	-
FEDERAL HIGHWAY ADMINISTRATION	430	35	375	20	-
FEDERAL RAILROAD ADMINISTRATION	100	-	100	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,055	30	1,025	-	-
OFFICE OF THE SECRETARY	1,775	25	1,750	-	-
US COAST GUARD	500	-	500	-	-
URBAN MASS TRANSPORTATION ADMIN	150	50	85	15	-
OTHER AGENCIES					
ADV COMM ON INTERGOVERNMNTL RELATIONS	226	176	35	15	-
CONSUMER PRODUCT SAFETY COMMISSION	1,339	-	1,309	30	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	9,265	3,871	5,197	197	-
ENVIRONMENTAL PROTECTION AGENCY	4,195	1,640	2,270	285	-
FEDERAL COMMUNICATIONS COMMISSION	20	6	6	8	-
FEDERAL HOME LOAN BANK BOARD	29	-	29	-	-
LIBRARY OF CONGRESS	38,416	-	35,062	-	3,354
NATIONAL AERONAUTICS & SPACE ADMIN	25,693	14,881	8,377	2,081	354
NATIONAL SCIENCE FOUNDATION	6,925	86	1,831	108	4,900
NUCLEAR REGULATORY COMMISSION	702	267	435	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	135	33	87	15	-
SMITHSONIAN INSTITUTION	6,441	1,370	4,657	264	150
TENNESSEE VALLEY AUTHORITY	187	-	187	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	11	5	6	-	-
VETERANS ADMINISTRATION	6,895	685	3,500	2,400	310

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-7. FEDERAL OBLIGATIONS FOR PUBLICATION AND DISTRIBUTION, AND SYMPOSIA AND AUDIOVISUAL MEDIA, BY AGENCY AND SUBCATEGORY: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PUBLICATION AND DISTRIBUTION					SYMPOSIA AND AUDIOVISUAL MEDIA		
	TOTAL	PRIMARY PUBLICATION AND DISTRIBUTION	PATENT EXAMINATION	SECONDARY AND TERTIARY PUBLICATION AND DISTRIBUTION	SUPPORT OF PUBLICATION	TOTAL	SYMPOSIA AND TECHNICAL MEETINGS	AUDIO-VISUAL MEDIA AND NON-PRINTED COMMUNICATION
TOTAL, ALL AGENCIES	144,740	76,933	48,482	11,544	7,781	27,893	17,819	10,074
DEPARTMENTS								
DEPARTMENT OF AGRICULTURE, TOTAL	5,694	4,826	-	-	868	3,014	2,842	172
AGRICULTURAL RESEARCH SERVICE	2,060	1,238	-	-	852	771	771	-
COOPERATIVE STATE RESEARCH SERVICE	41	41	-	-	-	349	349	-
ECONOMIC RESEARCH SERVICE	945	929	-	-	16	79	79	-
FARMER COOPERATIVE SERVICE	94	94	-	-	-		-	-
FOREST SERVICE	2,501	2,501	-	-	-	1,798	1,626	172
NATIONAL AGRICULTURAL LIBRARY	49	49	-	-	-	15	15	-
STATISTICAL REPORTING SERVICE	4	4	-	-	-	2	2	-
DEPARTMENT OF COMMERCE, TOTAL	76,519	26,543	47,744	1,671	561	1,637	779	858
BUREAU OF THE CENSUS	32	32	-	-	-	61	61	-
NATIONAL BUREAU OF STANDARDS	1,039	919	-	40	80	1,121	582	539
NATIONAL OCEANIC AND ATMOS ADMIN	2,614	1,649	20	543	402	452	133	319
NATIONAL TECHNICAL INFO SERVICE	12,398	12,398	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	96	16	-	1	79	3	3	-
PATENT & TRADEMARK OFFICE	60,640	11,829	47,724	1,087	-		-	-
DEPARTMENT OF DEFENSE, TOTAL	18,167	15,512	403	1,297	555	13,277	4,932	5,345
DEPARTMENT OF THE ARMY	7,255	5,839	402	952	62	2,360	1,004	1,356
DEPARTMENT OF THE NAVY	6,415	6,289	-	-	126	3,943	3,266	677
DEPARTMENT OF THE AIR FORCE	2,873	2,659	1	66	147	3,448	562	2,886
DEFENSE AGENCIES	1,624	1,125	-	279	220	526	100	426
DEPT OF HEALTH, ED. & WELFARE, TOTAL	11,882	6,535	-	1,362	3,985	6,706	5,379	1,327
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	1,624	955	-	634	35	345	335	10
CENTER FOR DISEASE CONTROL	1,031	1,031	-	-	-	429	429	-
FOOD AND DRUG ADMINISTRATION	1,245	340	-	-	905	462	238	224
HEALTH RESOURCES ADMINISTRATION	125	100	-	25	-	15	7	8
NATIONAL INSTITUTES OF HEALTH	7,318	3,570	-	703	3,045	5,445	4,360	1,085
SOCIAL SECURITY ADMINISTRATION	539	539	-		-	10	10	
DEPARTMENT OF THE INTERIOR, TOTAL	10,745	10,571	-	95	79	1,378	993	85
BUREAU OF MINES	565	565	-	-	-	60	60	-
BUREAU OF RECLAMATION	243	230	-	5	5	195	110	85
GEOLOGICAL SURVEY	9,135	9,135	-	-	-	658	658	-
NATIONAL PARK SERVICE	222	82	-	66	74	-	-	-
NATIONAL RESOURCES LIBRARY	24	-	-	24	-	15	15	-
US FISH AND WILDLIFE SERVICE	555	555	-	-	-	150	150	-
DEPARTMENT OF JUSTICE, TOTAL	620	555	-	65	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	620	555	-	65	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	377	374	-	1	2	23	5	18
EMPLOYMENT AND TRAINING ADMIN	372	372	-	-	-	18	-	18
OFFICE OF THE SECRETARY	5	2	-	1	2	5	5	-
DEPARTMENT OF STATE, TOTAL	265	-	-	25	240	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	265	-	-	25	240	-	-	-
DEPT OF TRANSPORTATION, TOTAL	140	140	-	-	-	35	35	-
FEDERAL AVIATION ADMINISTRATION	15	15	-	-	-	5	5	-
FEDERAL HIGHWAY ADMINISTRATION	30	30	-	-	-	15	15	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	25	25	-	-	-	-	-	-
OFFICE OF THE SECRETARY	20	20	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	50	50	-	-	-	15	15	-
OTHER AGENCIES								
ADV COMM ON INTERGOVERNMNTL RELATIONS	164	164	-	-	-	6	6	-
CONSUMER PRODUCT SAFETY COMMISSION	186	186	-	-	-	30	30	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	2,944	2,259	-	685	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	1,517	455	-	910	152	291	158	133
FEDERAL COMMUNICATIONS COMMISSION	6	6	-	-	-	8	8	-
NATIONAL AERONAUTICS & SPACE ADMIN	13,265	6,348	335	5,327	1,255	1,933	1,347	586
NATIONAL SCIENCE FOUNDATION	187	72	-	105	10	216	216	-
NUCLEAR REGULATORY COMMISSION	214	214	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	26	26	-	-	-	19	19	-
SMITHSONIAN INSTITUTION	1,152	1,128	-	-	24	255	255	-
US ARMS CONTROL & DISARMAMENT AGENCY	5	4	-	1	-	-	-	-
VETERANS ADMINISTRATION	665	615	-	-	50	2,365	815	1,550

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-8. FEDERAL OBLIGATIONS FOR PUBLICATION AND DISTRIBUTION, AND SYMPOSIA AND AUDIOVISUAL MEDIA, BY AGENCY AND SUBCATEGORY: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PUBLICATION AND DISTRIBUTION					SYMPOSIA AND AUDIOVISUAL MEDIA		
	TOTAL	PRIMARY PUBLICATION AND DISTRIBUTION	PATENT EXAMINATION	SECONDARY AND TERTIARY PUBLICATION AND DISTRIBUTION	SUPPORT OF PUBLICATION	TOTAL	SYMPOSIA AND TECHNICAL MEETINGS	AUDIO-VISUAL MEDIA AND NON-PRINTED COMMUNICATION
TOTAL, ALL AGENCIES	155,829	83,625	51,524	11,994	8,686	25,883	15,261	10,622
DEPARTMENTS								
DEPARTMENT OF AGRICULTURE, TOTAL	6,072	5,174	-	-	898	3,236	3,041	195
AGRICULTURAL RESEARCH SERVICE	2,131	1,249	-	-	882	797	797	-
COOPERATIVE STATE RESEARCH SERVICE	27	27	-	-	-	300	300	-
ECONOMIC RESEARCH SERVICE	945	929	-	-	16	79	79	-
FARMER COOPERATIVE SERVICE	93	93	-	-	-	-	-	-
FOREST SERVICE	2,831	2,831	-	-	-	2,035	1,840	195
NATIONAL AGRICULTURAL LIBRARY	41	41	-	-	-	23	23	-
STATISTICAL REPORTING SERVICE	4	4	-	-	-	2	2	-
DEPARTMENT OF COMMERCE, TOTAL	82,287	28,941	50,701	1,850	795	1,784	980	804
BUREAU OF THE CENSUS	40	40	-	-	-	65	65	-
NATIONAL BUREAU OF STANDARDS	1,102	977	-	43	82	1,169	656	513
NATIONAL OCEANIC AND ATMOS ADMIN	3,043	1,666	37	706	634	542	251	291
NATIONAL TECHNICAL INFO SERVICE	13,362	13,362	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	96	16	-	1	79	8	8	-
PATENT & TRADEMARK OFFICE	64,644	12,880	50,664	1,100	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	20,180	17,779	469	1,329	603	11,144	5,606	5,538
DEPARTMENT OF THE ARMY	7,654	6,130	468	991	65	2,358	1,036	1,322
DEPARTMENT OF THE NAVY	7,734	7,581	-	-	153	4,755	3,938	817
DEPARTMENT OF THE AIR FORCE	3,268	3,023	1	79	165	3,550	520	3,030
DEFENSE AGENCIES	1,524	1,045	-	259	220	481	112	369
DEPT OF HEALTH, ED. & WELFARE, TOTAL	12,523	6,907	-	1,305	4,311	7,083	5,504	1,579
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	1,625	1,003	-	580	42	495	374	121
CENTER FOR DISEASE CONTROL	1,076	1,076	-	-	-	467	467	-
FOOD AND DRUG ADMINISTRATION	1,270	320	-	-	950	440	170	270
HEALTH RESOURCES ADMINISTRATION	149	134	-	15	-	18	9	9
NATIONAL INSTITUTES OF HEALTH	7,816	3,787	-	710	3,319	5,653	4,474	1,179
SOCIAL SECURITY ADMINISTRATION	587	587	-	-	-	10	10	-
DEPARTMENT OF THE INTERIOR, TOTAL	11,751	11,517	-	113	121	1,219	1,109	110
BUREAU OF MINES	655	655	-	-	-	70	70	-
BUREAU OF RECLAMATION	280	255	-	20	5	230	120	110
GEOLOGICAL SURVEY	9,528	9,528	-	-	-	722	722	-
NATIONAL PARK SERVICE	268	84	-	68	116	-	-	-
NATIONAL RESOURCES LIBRARY	25	-	-	25	-	17	17	-
US FISH AND WILDLIFE SERVICE	595	595	-	-	-	180	180	-
DEPARTMENT OF JUSTICE, TOTAL	555	490	-	65		-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	555	490	-	65	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	401	398	-	1	2	48	30	18
EMPLOYMENT AND TRAINING ADMIN	378	378	-	-	-	18	-	18
OFFICE OF THE SECRETARY	23	20	-	1	2	30	30	-
DEPARTMENT OF STATE, TOTAL	320	-	-	60	260	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	320	-	-	60	260	-	-	-
DEPT OF TRANSPORTATION, TOTAL	170	170	-	-	-	45	45	-
FEDERAL AVIATION ADMINISTRATION	30	30	-	-	-	10	10	-
FEDERAL HIGHWAY ADMINISTRATION	35	35	-	-	-	20	20	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	30	30	-	-	-	-	-	-
OFFICE OF THE SECRETARY	25	25	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	50	50	-	-	-	15	15	-
OTHER AGENCIES								
ADV COMM ON INTERGOVERNMNTL RELATIONS	188	188	-	-	-	15	15	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	-	33	33	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	3,458	2,643	-	815	-	69	59	10
ENVIRONMENTAL PROTECTION AGENCY	1,640	485	-	980	175	285	160	125
FEDERAL COMMUNICATIONS COMMISSION	6	6	-	-	-	9	8	-
NATIONAL AERONAUTICS & SPACE ADMIN	13,701	6,447	354	5,470	1,430	1,959	1,333	626
NATIONAL SCIENCE FOUNDATION	291	266	-	5	20	248	242	6
NUCLEAR REGULATORY COMMISSION	243	243	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	30	30	-	-	-	51	15	36
SMITHSONIAN INSTITUTION	1,333	1,312	-	-	21	249	249	-
US ARMS CONTROL & DISARMAMENT AGENCY	5	4	-	1	-	-	-	-
VETERANS ADMINISTRATION	675	625	-	-	50	2,410	835	1,575

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-9. FEDERAL OBLIGATIONS FOR PUBLICATION AND DISTRIBUTION, AND SYMPOSIA AND AUDIOVISUAL MEDIA, BY AGENCY AND SUBCATEGORY: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PUBLICATION AND DISTRIBUTION					SYMPOSIA AND AUDIOVISUAL MEDIA		
	TOTAL	PRIMARY PUBLICATION AND DISTRIBUTION	PATENT EXAMINATION	SECONDARY AND TERTIARY PUBLICATION AND DISTRIBUTION	SUPPORT OF PUBLICATION	TOTAL	SYMPOSIA AND TECHNICAL MEETINGS	AUDIO-VISUAL MEDIA AND NON-PRINTED COMMUNICATION
TOTAL, ALL AGENCIES	161,106	87,965	51,321	12,613	9,207	31,634	20,596	11,038
DEPARTMENTS								
DEPARTMENT OF AGRICULTURE, TOTAL	6,253	5,347	-	-	906	3,354	3,148	206
AGRICULTURAL RESEARCH SERVICE	2,151	1,261	-	-	890	804	804	-
COOPERATIVE STATE RESEARCH SERVICE	26	26	-	-	-	300	300	-
ECONOMIC RESEARCH SERVICE	945	929	-	-	16	79	79	-
FARMER COOPERATIVE SERVICE	100	100	-	-		-	-	-
FOREST SERVICE	2,985	2,985	-	-	-	2,146	1,940	206
NATIONAL AGRICULTURAL LIBRARY	42	42	-	-	-	23	23	-
STATISTICAL REPORTING SERVICE	4	4	-	-		2	2	-
DEPARTMENT OF COMMERCE, TOTAL	83,672	30,475	50,526	1,799	872	1,847	1,013	834
BUREAU OF THE CENSUS	45	45	-	-	-	70	70	-
NATIONAL BUREAU OF STANDARDS	1,176	1,046	-	46	84	1,245	697	548
NATIONAL OCEANIC AND ATMOS ADMIN	3,043	1,666	36	652	689	520	234	286
NATIONAL TECHNICAL INFO SERVICE	14,902	14,902	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	116	16	-	1	99	12	12	-
PATENT & TRADEMARK OFFICE	64,390	12,800	50,490	1,100	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	21,372	18,977	422	1,347	626	11,959	6,176	5,783
DEPARTMENT OF THE ARMY	7,742	6,242	421	1,015	64	2,460	1,074	1,386
DEPARTMENT OF THE NAVY	8,524	8,355	-	-	169	5,241	4,340	901
DEPARTMENT OF THE AIR FORCE	3,470	3,249	1	52	168	3,809	649	3,160
DEFENSE AGENCIES	1,636	1,131	-	280	225	449	113	336
DEPT OF HEALTH, ED. & WELFARE, TOTAL	13,227	7,246	-	1,372	4,609	7,553	5,886	1,667
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	1,646	1,035	-	579	32	502	387	115
CENTER FOR DISEASE CONTROL	1,081	1,081	-	-	-	535	535	-
FOOD AND DRUG ADMINISTRATION	1,270	320	-	-	950	440	170	270
HEALTH RESOURCES ADMINISTRATION	155	140	-	15	-	19	9	10
NATIONAL INSTITUTES OF HEALTH	8,441	4,036	-	778	3,627	6,047	4,775	1,272
SOCIAL SECURITY ADMINISTRATION	634	634	-	-	-	10	10	-
DEPARTMENT OF THE INTERIOR, TOTAL	12,080	11,840	-	129	111	1,255	1,130	125
BUREAU OF MINES	655	655	-	-	-	70	70	-
BUREAU OF RECLAMATION	305	270	-	30	5	255	130	125
GEOLOGICAL SURVEY	10,230	10,230	-	-	-	735	735	-
NATIONAL PARK SERVICE	260	85	-	69	106	-	-	-
NATIONAL RESOURCES LIBRARY	30	-	-	30	-	20	20	-
US FISH AND WILDLIFE SERVICE	600	600	-	-		175	175	-
DEPARTMENT OF JUSTICE, TOTAL	670	605	-	65	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	670	605	-	65	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	300	294	-	4	2	18	7	11
EMPLOYMENT AND TRAINING ADMIN	290	290	-	-	-	11	-	11
OFFICE OF THE SECRETARY	10	4	-	4	2	7	7	-
DEPARTMENT OF STATE, TOTAL	345	-	-	70	275	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	345	-	-	70	275	-	-	-
DEPT OF TRANSPORTATION, TOTAL	170	170	-	-	-	45	45	-
FEDERAL AVIATION ADMINISTRATION	30	30	-	-	-	10	10	-
FEDERAL HIGHWAY ADMINISTRATION	35	35	-	-	-	20	20	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	30	30	-	-		-	-	-
OFFICE OF THE SECRETARY	25	25	-	-		-	-	-
URBAN MASS TRANSPORTATION ADMIN	50	50	-	-	-	15	15	-
OTHER AGENCIES								
ADV COMM ON INTERGOVERNMNTL RELATIONS	176	176	-	-	-	15	15	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	-	30	30	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	3,871	2,959	-	912		197	170	27
ENVIRONMENTAL PROTECTION AGENCY	1,640	485	-	980	175	285	160	125
FEDERAL COMMUNICATIONS COMMISSION	6	6	-	-	-	8	8	-
NATIONAL AERONAUTICS & SPACE ADMIN	14,881	7,040	372	5,930	1,539	2,081	1,421	660
NATIONAL SCIENCE FOUNDATION	86	61	-	5	20	308	308	-
NUCLEAR REGULATORY COMMISSION	267	267	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	30	30	-	-	-	15	15	-
SMITHSONIAN INSTITUTION	1,370	1,348	-	-	22	264	264	-
US ARMS CONTROL & DISARMAMENT AGENCY	5	4	1	-	-	-	-	-
VETERANS ADMINISTRATION	685	632	-	-	53	2,400	800	1,600

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-10. FEDERAL OBLIGATIONS FOR DOCUMENTATION, REFERENCE, AND INFORMATION SERVICES, BY AGENCY AND SUBCATEGORY: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIBRARY, REFERENCE, AND REFERRAL	NETWORKING FOR LIBRARIES AND DOCUMENTATION CENTERS	SPECIALIZED INFORMATION CENTERS	NETWORKING FOR SPECIALIZED INFORMATION CENTERS	TRANSLATIONS
TOTAL, ALL AGENCIES	226,612	140,710	4,729	78,371	819	1,983
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	7,263	6,906	25	32	-	300
AGRICULTURAL RESEARCH SERVICE	1,113	813	-	-	-	300
ECONOMIC RESEARCH SERVICE	50	18	-	32	-	-
FOREST SERVICE	633	633	-		-	-
NATIONAL AGRICULTURAL LIBRARY	5,467	5,442	25	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	27,209	22,262	982	3,721	-	244
BUREAU OF THE CENSUS	239	128	-	111	-	-
NATIONAL BUREAU OF STANDARDS	4,081	490	2	3,589	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	70	70	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	2,189	1,188	980	21	-	-
NATIONAL TECHNICAL INFO SERVICE	1,372	1,372	-	-	-	-
PATENT & TRADEMARK OFFICE	19,258	19,014	-	-	-	244
DEPARTMENT OF DEFENSE, TOTAL	61,379	23,017	311	37,593	14	444
DEPARTMENT OF THE ARMY	36,188	4,145	135	31,904	-	4
DEPARTMENT OF THE NAVY	6,156	5,122	171	420	14	429
DEPARTMENT OF THE AIR FORCE	3,750	3,187	5	547	-	11
DEFENSE AGENCIES	15,285	10,563	-	4,722	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	53,204	32,817	106	19,772	92	417
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	3,069	1,338	106	1,480	92	53
CENTER FOR DISEASE CONTROL	1,052	289	-	738	-	25
FOOD AND DRUG ADMINISTRATION	2,113	1,011	-	1,090	-	12
HEALTH RESOURCES ADMINISTRATION	16	4	-	12	-	-
NATIONAL INSTITUTE OF EDUCATION	4,476	4,476	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	42,478	25,699	-	16,449	-	330
DEPARTMENT OF THE INTERIOR, TOTAL	14,692	4,267	942	9,393	-	90
BUREAU OF MINES	250	250	-	-	-	-
BUREAU OF OUTDOOR RECREATION	50	1	-	49	-	-
BUREAU OF RECLAMATION	263	238	-		-	25
GEOLOGICAL SURVEY	10,703	1,636	736	8,358	-	-
NATIONAL PARK SERVICE	20	-	-	-	-	20
NATIONAL RESOURCES LIBRARY	2,028	1,747	236	-	-	45
OFFICE OF WATER RES AND TECHNOLOGY	986	-	-	986	-	-
US FISH AND WILDLIFE SERVICE	355	355			-	-
DEPARTMENT OF JUSTICE, TOTAL	2,050	50	-	2,000	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,050	50	-	2,000	-	-
DEPARTMENT OF LABOR, TOTAL	89	89				-
EMPLOYMENT AND TRAINING ADMIN	82	82	-		-	-
OFFICE OF THE SECRETARY	7	7	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,877	1,877	-		-	-
DEPARTMENTAL FUNDS	217	217	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	1,660	1,660	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	3,728	213	-	3,515	-	-
FEDERAL AVIATION ADMINISTRATION	123	123	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	340	75	-	265	-	-
FEDERAL RAILROAD ADMINISTRATION	110	-	-	110	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	910	15	-	895	-	-
OFFICE OF THE SECRETARY	1,725	-	-	1,725	-	-
US COAST GUARD	435	-	-	435	-	-
URBAN MASS TRANSPORTATION ADMIN	85	-	-	85	-	-
OTHER AGENCIES						
ADV COMM ON INTERGOVERNMNTL RELATIONS	30	30	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,426	1,426	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	3,487	1,494	1,993	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,312	155	126	1,006	713	12
FEDERAL COMMUNICATIONS COMMISSION	6	6	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	25	25	-	-	-	-
LIBRARY OF CONGRESS	31,944	31,944	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	7,662	6,291	184	986	-	201
NATIONAL SCIENCE FOUNDATION	616	24	-	353	-	239
NUCLEAR REGULATORY COMMISSION	267	231	-	-	-	36
OFFICE OF TELECOMMUNICATIONS POLICY	49	49	-	-	-	-
SMITHSONIAN INSTITUTION	4,103	4,043	60	-		-
TENNESSEE VALLEY AUTHORITY	135	135	-		-	-
US ARMS CONTROL & DISARMAMENT AGENCY	5	5	-	-	-	-
VETERANS ADMINISTRATION	3,350	3,350	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-11. FEDERAL OBLIGATIONS FOR DOCUMENTATION, REFERENCE, AND INFORMATION SERVICES, BY AGENCY AND SUBCATEGORY: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIBRARY, REFERENCE, AND REFERRAL	NETWORKING FOR LIBRARIES AND DOCUMENTATION CENTERS	SPECIALIZED INFORMATION CENTERS	NETWORKING FOR SPECIALIZED INFORMATION CENTERS	TRANSLATIONS
TOTAL, ALL AGENCIES	253,934	156,422	4,836	87,524	1,283	3,869
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	9,311	7,751	26	32	-	1,202
AGRICULTURAL RESEARCH SERVICE	2,043	841	-	-	-	1,202
ECONOMIC RESEARCH SERVICE	50	18	-	32	-	-
FOREST SERVICE	747	747	-	-	-	-
NATIONAL AGRICULTURAL LIBRARY	6,171	6,145	26	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	29,136	23,758	136	4,613	383	246
BUREAU OF THE CENSUS	253	132	-	121	-	-
NATIONAL BUREAU OF STANDARDS	4,222	530	14	3,678	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	75	75	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	2,716	1,395	122	814	383	2
NATIONAL TECHNICAL INFO SERVICE	1,612	1,612	-	-	-	-
PATENT & TRADEMARK OFFICE	20,258	20,014	-	-	-	244
DEPARTMENT OF DEFENSE, TOTAL	67,597	27,196	425	39,485	14	477
DEPARTMENT OF THE ARMY	37,938	4,342	168	33,423	-	5
DEPARTMENT OF THE NAVY	6,787	5,623	244	445	14	461
DEPARTMENT OF THE AIR FORCE	4,704	3,862	8	823	-	11
DEFENSE AGENCIES	18,168	13,369	5	4,794	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	61,029	37,336	102	23,095	71	425
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	2,455	1,048	102	1,184	71	50
CENTER FOR DISEASE CONTROL	1,116	303	-	787	-	26
FOOD AND DRUG ADMINISTRATION	2,650	910	-	1,730	-	10
HEALTH RESOURCES ADMINISTRATION	19	5	-	14	-	-
NATIONAL INSTITUTE OF EDUCATION	4,656	4,656	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	50,133	30,414	-	19,380	-	339
DEPARTMENT OF THE INTERIOR, TOTAL	17,836	4,749	991	11,996	-	100
BUREAU OF MINES	275	275	-	-	-	-
BUREAU OF OUTDOOR RECREATION	50	1	-	49	-	-
BUREAU OF RECLAMATION	303	268	-	-	-	35
GEOLOGICAL SURVEY	13,851	2,271	733	10,847	-	-
NATIONAL PARK SERVICE	15	-	-	-	-	15
NATIONAL RESOURCES LIBRARY	1,842	1,534	258	-	-	50
OFFICE OF WATER RES AND TECHNOLOGY	1,100	-	-	1,100	-	-
US FISH AND WILDLIFE SERVICE	400	400	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,327	127	-	2,200	-	-
BUREAU OF PRISONS	77	77	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,250	50	-	2,200	-	-
DEPARTMENT OF LABOR, TOTAL	95	95	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	85	85	-	-	-	-
OFFICE OF THE SECRETARY	10	10	-	-	-	-
DEPARTMENT OF STATE, TOTAL	2,435	2,435	-	-	-	-
DEPARTMENTAL FUNDS	235	235	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	2,200	2,200	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	3,975	245	-	3,730	-	-
FEDERAL AVIATION ADMINISTRATION	150	150	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	375	75	-	300	-	-
FEDERAL RAILROAD ADMINISTRATION	90	-	-	90	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,025	20	-	1,005	-	-
OFFICE OF THE SECRETARY	1,750	-	-	1,750	-	-
US COAST GUARD	500	-	-	500	-	-
URBAN MASS TRANSPORTATION ADMIN	85	-	-	85	-	-
OTHER AGENCIES						
ADV COMM ON INTERGOVERNMNTL RELATIONS	32	32	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,575	1,575	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	4,648	1,909	2,729	10	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,270	227	138	1,075	815	15
FEDERAL COMMUNICATIONS COMMISSION	6	6	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	28	28	-	-	-	-
LIBRARY OF CONGRESS	34,002	34,002	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	7,729	6,472	231	894	-	132
NATIONAL SCIENCE FOUNDATION	1,648	32	-	394	-	1,222
NUCLEAR REGULATORY COMMISSION	391	341	-	-	-	50
OFFICE OF TELECOMMUNICATIONS POLICY	60	60	-	-	-	-
SMITHSONIAN INSTITUTION	4,493	4,435	58	-	-	-
TENNESSEE VALLEY AUTHORITY	166	166	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	5	5	-	-	-	-
VETERANS ADMINISTRATION	3,400	3,400	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-12. FEDERAL OBLIGATIONS FOR DOCUMENTATION, REFERENCE, AND INFORMATION SERVICES, BY AGENCY AND SUBCATEGORY: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIBRARY, REFERENCE, AND REFERRAL	NETWORKING FOR LIBRARIES AND DOCUMENTATION CENTERS	SPECIALIZED INFORMATION CENTERS	NETWORKING FOR SPECIALIZED INFORMATION CENTERS	TRANSLATIONS
TOTAL, ALL AGENCIES	262,873	162,941	6,787	88,736	914	3,495
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	9,480	8,472	26	32	-	950
AGRICULTURAL RESEARCH SERVICE	1,798	848	-	-	-	950
ECONOMIC RESEARCH SERVICE	50	18	-	32	-	-
FOREST SERVICE	817	817	-	-	-	-
NATIONAL AGRICULTURAL LIBRARY	6,815	6,789	26	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	29,064	23,960	107	4,749	3	245
BUREAU OF THE CENSUS	265	138	-	127	-	-
NATIONAL BUREAU OF STANDARDS	4,356	562	16	3,778	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	75	75	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	2,389	1,450	91	844	3	1
NATIONAL TECHNICAL INFO SERVICE	1,764	1,764	-	-	-	-
PATENT & TRADEMARK OFFICE	20,215	19,971	-	-	-	244
DEPARTMENT OF DEFENSE, TOTAL	69,048	27,918	370	40,275	28	457
DEPARTMENT OF THE ARMY	38,590	4,082	102	34,401	-	5
DEPARTMENT OF THE NAVY	7,286	6,085	257	475	28	441
DEPARTMENT OF THE AIR FORCE	5,395	4,808	5	571	-	11
DEFENSE AGENCIES	17,777	12,943	6	4,828	-	-
DEPT OF HEALTH, ED, & WELFARE, TOTAL	64,954	39,366	1,826	23,272	68	422
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	2,385	971	96	1,200	68	50
CENTER FOR DISEASE CONTROL	1,164	304	-	834	-	26
FOOD AND DRUG ADMINISTRATION	2,650	910	1,730	-	-	10
HEALTH RESOURCES ADMINISTRATION	20	5	-	15	-	-
NATIONAL INSTITUTE OF EDUCATION	5,050	5,050	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	53,685	32,126	-	21,223	-	336
DEPARTMENT OF THE INTERIOR, TOTAL	18,201	5,190	990	11,936	-	85
BUREAU OF MINES	275	275	-	-	-	-
BUREAU OF OUTDOOR RECREATION	50	1	-	49	-	-
BUREAU OF RECLAMATION	318	283	-	-	-	35
GEOLOGICAL SURVEY	13,874	2,352	735	10,787	-	-
NATIONAL PARK SERVICE	10	-	-	-	-	10
NATIONAL RESOURCES LIBRARY	2,174	1,879	255	-	-	40
OFFICE OF WATER RES AND TECHNOLOGY	1,100	-	-	1,100	-	-
US FISH AND WILDLIFE SERVICE	400	400	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,699	469	-	2,230	-	-
BUREAU OF PRISONS	409	409	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,290	60	-	2,230	-	-
DEPARTMENT OF LABOR, TOTAL	61	61	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	51	51	-	-	-	-
OFFICE OF THE SECRETARY	10	10	-	-	-	-
DEPARTMENT OF STATE, TOTAL	2,640	2,640	-	-	-	-
DEPARTMENTAL FUNDS	240	240	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	2,400	2,400	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	3,988	245	-	3,743	-	-
FEDERAL AVIATION ADMINISTRATION	150	150	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	375	75	-	300	-	-
FEDERAL RAILROAD ADMINISTRATION	100	-	-	100	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,025	20	-	1,005	-	-
OFFICE OF THE SECRETARY	1,750	-	-	1,750	-	-
US COAST GUARD	500	-	-	500	-	-
URBAN MASS TRANSPORTATION ADMIN	88	-	-	88	-	-
OTHER AGENCIES						
ADV COMM ON INTERGOVERNMNTL RELATIONS	35	35	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,309	1,309	-	-	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	5,197	2,134	3,036	27	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,270	227	138	1,075	815	15
FEDERAL COMMUNICATIONS COMMISSION	6	6	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	29	29	-	-	-	-
LIBRARY OF CONGRESS	35,022	35,022	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	8,377	7,070	234	933	-	140
NATIONAL SCIENCE FOUNDATION	1,631	43	-	467	-	1,121
NUCLEAR REGULATORY COMMISSION	435	375	-	-	-	60
OFFICE OF TELECOMMUNICATIONS POLICY	60	60	-	-	-	-
SMITHSONIAN INSTITUTION	4,657	4,597	60	-	-	-
TENNESSEE VALLEY AUTHORITY	187	187	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	6	6	-	-	-	-
VETERANS ADMINISTRATION	3,500	3,500	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-13. FEDERAL INTRAMURAL AND EXTRAMURAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION, BY AGENCY AND ACTIVITY: FISCAL YEAR 1976

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL					EXTRAMURAL				
		TOTAL	PUBLICATION AND DISTRIB	DOC, REF AND INFOR SERVICE	SYMPOSIA AND AUDIO/VISUAL	R&D IN INFO SCIENCE	TOTAL	PUBLICATION AND DISTRIB	DOC, REF AND INFOR SERVICE	SYMPOSIA AND AUDIO/VISUAL	R&D IN INFO SCIENCE
TOTAL, ALL AGENCIES	468,902	329,735	121,377	175,383	20,641	12,334	139,167	23,363	51,229	7,252	57,323
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	15,979	15,248	5,694	6,537	3,014	3	731	-	726	-	5
AGRICULTURAL RESEARCH SERVICE	3,944	3,644	2,060	813	771	-	300	-	300	-	-
COOPERATIVE STATE RESEARCH SERVICE	390	390	41	-	349	-	-	-	-	-	-
ECONOMIC RESEARCH SERVICE	1,074	1,074	945	50	79	-	-	-	-	-	-
FARMER COOPERATIVE SERVICE	94	94	94	-	-	-	-	-	-	-	-
FOREST SERVICE	4,932	4,932	2,501	633	1,798	-	-	-	-	-	-
NATIONAL AGRICULTURAL LIBRARY	5,539	5,108	49	5,041	15	3	431	-	426	-	5
STATISTICAL REPORTING SERVICE	6	6	4	-	2	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	105,206	107,253	75,557	26,358	1,498	3,840	1,953	962	851	139	1
BUREAU OF THE CENSUS	607	586	32	239	40	275	21	-	-	21	-
NATIONAL BUREAU OF STANDARDS	9,054	8,508	1,039	3,535	1,121	2,813	546	-	546	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	70	70	-	70	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	5,579	4,203	1,662	1,884	334	323	1,376	952	305	118	1
NATIONAL TECHNICAL INFO SERVICE	13,470	13,470	12,098	1,372	-	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	154	144	86	-	3	55	10	10	-	-	-
PATENT & TRADEMARK OFFICE	80,272	80,272	60,640	19,258	-	374	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	132,828	74,606	11,721	53,739	7,189	1,957	58,222	6,446	7,640	3,088	41,048
DEPARTMENT OF THE ARMY	45,836	44,239	6,060	36,012	2,134	33	1,597	1,195	176	226	-
DEPARTMENT OF THE NAVY	18,704	9,717	2,939	4,122	1,696	960	8,987	3,476	2,034	2,247	1,230
DEPARTMENT OF THE AIR FORCE	12,725	8,565	1,958	2,962	3,109	536	4,160	915	788	339	2,118
DEFENSE AGENCIES	55,563	12,085	764	10,643	250	428	43,478	860	4,642	276	37,700
DEPT OF HEALTH, ED, & WELFARE, TOTAL	84,395	36,058	6,516	24,393	3,152	1,997	48,337	5,366	28,811	3,554	10,606
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	5,118	1,594	367	1,227	-	-	3,524	1,257	1,842	345	80
CENTER FOR DISEASE CONTROL	2,512	2,009	767	914	328	-	503	264	138	101	-
FOOD AND DRUG ADMINISTRATION	3,820	2,544	366	2,113	65	-	1,276	879	-	397	-
HEALTH RESOURCES ADMINISTRATION	156	156	125	16	15	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	4,476	-	-	-	-	-	4,476	-	4,476	-	-
NATIONAL INSTITUTES OF HEALTH	67,764	29,206	4,352	20,123	2,734	1,997	38,558	2,966	22,355	2,711	10,526
SOCIAL SECURITY ADMINISTRATION	549	549	539	-	10		-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	27,076	26,385	10,532	14,214	1,078	561	691	213	478	-	-
BUREAU OF MINES	875	875	565	250	60	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	50	50	-	50	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	698	678	240	243	195	-	20	-	20	-	-
GEOLOGICAL SURVEY	21,058	21,058	9,139	10,700	658	561	-	-	-	-	-
NATIONAL PARK SERVICE	243	134	114	20	-	-	109	108	-	-	-
NATIONAL RESOURCES LIBRARY	2,067	2,067	24	2,028	15	-	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	986	673	-	673	-	-	313	-	313	-	-
US FISH AND WILDLIFE SERVICE	1,100	850	450	250	150	-	250	105	145	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,673	665	615	50	-	-	2,005	5	2,000	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,670	665	615	50	-	-	2,005	5	2,000	-	-
DEPARTMENT OF LABOR, TOTAL	539	452	358	89	5	-	87	19	-	18	50
EMPLOYMENT AND TRAINING ADMIN	522	435	353	82	-	-	87	19	-	18	50
OFFICE OF THE SECRETARY	17	17	5	7	5	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	2,142	1,877	-	1,877	-	-	265	265	-	-	-
DEPARTMENTAL FUNDS	217	217	-	217	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	1,925	1,660	-	1,660	-	-	265	265	-	-	-
DEPT OF TRANSPORTATION, TOTAL	3,903	1,880	62	1,783	35	-	2,023	78	1,945	-	-
FEDERAL AVIATION ADMINISTRATION	143	83	-	78	5	-	60	15	45	-	-
FEDERAL HIGHWAY ADMINISTRATION	385	155	25	115	15	-	230	5	225	-	-
FEDERAL RAILROAD ADMINISTRATION	110	-	-	-	-	-	110	-	110	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	935	20	10	10	-	-	915	15	900	-	-
OFFICE OF THE SECRETARY	1,745	1,462	12	1,450	-	-	283	8	275	-	-
US COAST GUARD	435	110	-	110	-	-	325	-	325	-	-
URBAN MASS TRANSPORTATION ADMIN	150	50	15	20	15	-	100	35	65	-	-
OTHER AGENCIES											
ADV COMM ON INTERGOVERNMNTL RELATIONS	200	200	164	30	6	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,642	1,354	-	1,324	30	-	288	186	102	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	6,431	3,997	1,902	2,095	-	-	2,434	1,042	1,392	-	-
ENVIRONMENTAL PROTECTION AGENCY	3,820	3,231	1,337	1,650	244	-	589	180	362	47	-
FEDERAL COMMUNICATIONS COMMISSION	20	20	6	6	8	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	25	25	-	25	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	34,907	34,907	-	31,944	-	2,963	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	23,240	10,038	4,812	3,213	1,717	296	13,202	8,453	4,449	216	84
NATIONAL SCIENCE FOUNDATION	6,805	536	69	119	91	257	6,269	118	497	125	5,529
NUCLEAR REGULATORY COMMISSION	481	445	214	231	-	-	36	-	36	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	94	75	26	49	-	-	19	-	-	19	-
SMITHSONIAN INSTITUTION	5,660	3,720	1,152	2,163	255	150	1,940	-	1,940	-	-
TENNESSEE VALLEY AUTHORITY	139	139	-	139	-		-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	10	10	5	5	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	6,690	6,614	635	3,350	2,319	310	76	30	-	46	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-14. FEDERAL INTRAMURAL AND EXTRAMURAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION, BY AGENCY AND ACTIVITY: FISCAL YEAR 1977 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL					EXTRAMURAL				
		TOTAL	PUBLICATION AND DISTRIB	DOC, REF AND INFOR SERVICE	SYMPOSIA AND AUDIO/VISUAL	R&D IN INFO SCIENCE	TOTAL	PUBLICATION AND DISTRIB	DOC, REF AND INFOR SERVICE	SYMPOSIA AND AUDIO/VISUAL	R&D IN INFO SCIENCE
TOTAL, ALL AGENCIES	508,152	359,222	130,592	193,371	21,920	13,339	148,910	25,237	60,563	7,563	55,147
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	18,319	16,660	6,072	7,352	3,236	-	1,659	-	1,659	-	-
AGRICULTURAL RESEARCH SERVICE	4,971	3,769	2,131	841	797	-	1,202	-	1,202	-	-
COOPERATIVE STATE RESEARCH SERVICE	327	327	27	-	300	-	-	-	-	-	-
ECONOMIC RESEARCH SERVICE	1,074	1,074	945	50	79	-	-	-	-	-	-
FARMER COOPERATIVE SERVICE	53	53	53	-	-	-	-	-	-	-	-
FOREST SERVICE	5,613	5,613	2,831	747	2,035	-	-	-	-	-	-
NATIONAL AGRICULTURAL LIBRARY	6,235	5,778	41	5,714	23	-	457	-	457	-	-
STATISTICAL REPORTING SERVICE	6	6	4	-	2	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	117,525	114,997	81,166	27,885	1,628	4,318	2,528	1,121	1,251	156	-
BUREAU OF THE CENSUS	648	628	40	253	45	290	20	-	-	20	-
NATIONAL BUREAU OF STANDARDS	9,668	9,095	1,102	3,649	1,169	3,175	573	-	573	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	75	75	-	75	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	6,636	4,713	1,932	2,038	408	335	1,923	1,111	678	134	-
NATIONAL TECHNICAL INFO SERVICE	14,974	14,974	13,362	1,612	-	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	175	163	86	-	6	71	12	10	-	2	-
PATENT & TRADEMARK OFFICE	85,349	85,349	64,644	20,258	-	447		-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	157,377	81,137	12,892	59,281	7,650	1,314	56,240	7,288	8,316	3,494	37,142
DEPARTMENT OF THE ARMY	47,982	46,105	6,305	37,630	2,138	32	1,877	1,349	308	220	-
DEPARTMENT OF THE NAVY	21,322	10,741	3,544	4,536	2,045	616	10,581	4,190	2,251	2,710	1,430
DEPARTMENT OF THE AIR FORCE	13,488	9,628	2,303	3,661	3,198	466	3,860	965	1,043	352	1,500
DEFENSE AGENCIES	54,585	14,663	740	13,454	269	200	39,922	784	4,714	212	34,212
DEPT OF HEALTH, ED, & WELFARE, TOTAL	96,895	41,408	6,582	27,953	3,384	3,089	55,487	5,541	33,116	3,699	13,131
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	4,625	1,234	380	854	-	-	3,391	1,245	1,601	495	50
CENTER FOR DISEASE CONTROL	2,659	2,070	799	936	335	-	589	277	180	132	-
FOOD AND DRUG ADMINISTRATION	4,360	3,100	370	2,650	80	-	1,260	900	-	360	-
HEALTH RESOURCES ADMINISTRATION	186	186	145	15	18	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	4,696	-	-	-	-	-	4,696	-	4,696	-	-
NATIONAL INSTITUTES OF HEALTH	79,772	34,221	4,697	23,494	2,941	3,089	45,551	3,119	26,639	2,712	13,081
SOCIAL SECURITY ADMINISTRATION	597	597	587	-	10	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	31,441	30,646	11,519	17,288	1,204	635	795	232	548	15	-
BUREAU OF MINES	1,000	1,000	655	275	70	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	50	50	-	50	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	813	770	280	275	215	-	43	-	28	15	-
GEOLOGICAL SURVEY	25,136	25,136	9,928	13,851	722	635	-	-	-	-	-
NATIONAL PARK SERVICE	283	171	156	15	-	-	112	112	-	-	-
NATIONAL RESOURCES LIBRARY	1,884	1,884	25	1,842	17		-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	1,100	730	-	730	-	-	370	-	370	-	-
US FISH AND WILDLIFE SERVICE	1,175	905	475	250	180	-	270	120	150	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,882	677	550	127	-	-	2,205	5	2,200	-	-
BUREAU OF PRISONS	77	77	-	77	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,805	600	550	50	-	-	2,205	5	2,200	-	-
DEPARTMENT OF LABOR, TOTAL	595	506	381	95	30	-	89	20	-	18	51
EMPLOYMENT AND TRAINING ADMIN	532	443	358	85	-	-	89	20	-	18	51
OFFICE OF THE SECRETARY	63	63	23	10	30	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	2,755	2,135	-	2,135	-	-	620	320	300	-	-
DEPARTMENTAL FUNDS	235	235	-	235	-			-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	2,520	1,900	-	1,900	-	-	620	320	300	-	-
DEPT OF TRANSPORTATION, TOTAL	4,190	1,940	75	1,820	45	-	2,250	95	2,155	-	-
FEDERAL AVIATION ADMINISTRATION	190	120	10	100	10	-	70	20	50	-	-
FEDERAL HIGHWAY ADMINISTRATION	430	170	25	125	20	-	260	10	250	-	-
FEDERAL RAILROAD ADMINISTRATION	90	-	-	-	-	-	90	-	90	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,055	35	10	25	-	-	1,020	20	1,000	-	-
OFFICE OF THE SECRETARY	1,775	1,465	15	1,450	-	-	310	10	300	-	-
US COAST GUARD	500	100	-	100	-	-	400	-	400	-	-
URBAN MASS TRANSPORTATION ADMIN	150	50	15	20	15	-	100	35	65	-	-
OTHER AGENCIES											
ADV COMM ON INTERGOVERNMNTL RELATIONS	235	235	188	32	15	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,605	1,463	-	1,433	30	-	142	-	142	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	8,175	4,235	2,016	2,219	-	-	3,940	1,442	2,429	69	-
ENVIRONMENTAL PROTECTION AGENCY	4,195	3,583	1,443	1,890	250	-	612	197	380	35	-
FEDERAL COMMUNICATIONS COMMISSION	20	20	6	6	8	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	28	28	-	28	-	-		-	-	-	-
LIBRARY OF CONGRESS	37,073	37,073	-	34,002	-	3,071		-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	23,746	10,211	4,982	3,232	1,725	272	13,535	8,719	4,497	234	85
NATIONAL SCIENCE FOUNDATION	7,105	419	64	105	70	180	6,686	227	1,543	178	4,728
NUCLEAR REGULATORY COMMISSION	634	584	243	341	-	-	50	-	50	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	141	126	30	60	36	-	15	-	-	15	-
SMITHSONIAN INSTITUTION	6,225	4,248	1,333	2,516	249	150	1,977	-	1,977	-	-
TENNESSEE VALLEY AUTHORITY	166	166	-	166	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	10	10	5	5	-	-		-	-	-	-
VETERANS ADMINISTRATION	6,795	6,715	645	3,400	2,360	310	80	30	-	50	-

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE D-15. FEDERAL INTRAMURAL AND EXTRAMURAL OBLIGATIONS FOR SCIENTIFIC AND TECHNICAL INFORMATION, BY AGENCY AND ACTIVITY: FISCAL YEAR 1978 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL					EXTRAMURAL				
		TOTAL	PUBLI-CATION AND DISTRIB	DOC, REF AND INFOR SERVICE	SYM-POSIA AND AUDIO/VISUAL	R&D IN INFO SCIENCE	TOTAL	PUBLI-CATION AND DISTRIB	DOC, REF AND INFOR SERVICE	SYM-POSIA AND AUDIO/VISUAL	R&D IN INFO SCIENCE
TOTAL, ALL AGENCIES	525,871	365,933	134,387	199,680	23,058	12,808	159,938	26,719	63,193	8,576	61,450
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	19,087	17,680	6,253	8,073	3,354	-	1,407	-	1,407	-	-
AGRICULTURAL RESEARCH SERVICE	4,753	3,803	2,151	848	804	-	950	-	950	-	-
COOPERATIVE STATE RESEARCH SERVICE	326	326	26	-	300	-	-	-	-	-	-
ECONOMIC RESEARCH SERVICE	1,074	1,074	945	50	79	-	-	-	-	-	-
FARMER COOPERATIVE SERVICE	100	100	100	-	-	-	-	-	-	-	-
FOREST SERVICE	5,948	5,948	2,985	817	2,146	-	-	-	-	-	-
NATIONAL AGRICULTURAL LIBRARY	6,880	6,423	42	6,358	23	-	457	-	457	-	-
STATISTICAL REPORTING SERVICE	6	6	4	-	2	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	118,696	116,401	82,514	28,108	1,686	4,093	2,295	1,158	976	161	-
BUREAU OF THE CENSUS	680	658	45	265	48	300	22	-	-	22	-
NATIONAL BUREAU OF STANDARDS	5,881	5,301	1,176	3,776	1,245	3,104	580	-	580	-	-
NATIONAL FIRE PREV & CONTROL ADMIN	75	75	-	75	-	-	-	-	-	-	-
NATIONAL OCEANIC AND ATMOS ADMIN	6,194	4,515	1,895	1,993	385	242	1,679	1,148	396	135	-
NATIONAL TECHNICAL INFO SERVICE	16,686	16,686	14,902	1,784	-	-	-	-	-	-	-
OFFICE OF TELECOMMUNICATIONS	128	114	106	-	8	-	14	10	-	4	-
PATENT & TRADEMARK OFFICE	85,052	85,052	64,390	20,215	-	447	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	146,268	83,878	13,521	60,694	8,198	1,465	62,390	7,851	8,354	3,761	42,424
DEPARTMENT OF THE ARMY	48,824	46,882	6,377	38,235	2,238	32	1,942	1,365	355	222	-
DEPARTMENT OF THE NAVY	23,057	11,438	3,906	4,845	2,254	433	11,619	4,618	2,441	2,987	1,573
DEPARTMENT OF THE AIR FORCE	15,205	11,044	2,437	4,585	3,432	590	4,161	1,033	810	377	1,941
DEFENSE AGENCIES	59,182	14,514	801	13,029	274	410	44,668	835	4,748	175	38,910
DEPT OF HEALTH, ED, & WELFARE, TOTAL	102,227	43,166	7,489	29,730	3,645	2,302	59,061	5,738	35,224	3,908	14,191
ALCOHOL, DRUG ABUSE & MENTAL HEALTH	4,628	1,283	415	868	-	-	3,345	1,231	1,517	502	95
CENTER FOR DISEASE CONTROL	2,780	2,119	804	942	373	-	661	277	222	162	-
FOOD AND DRUG ADMINISTRATION	4,360	3,100	370	2,650	80	-	1,260	900	-	360	-
HEALTH RESOURCES ADMINISTRATION	194	194	155	20	19	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	5,050	-	-	-	-	-	5,050	-	5,050	-	-
NATIONAL INSTITUTES OF HEALTH	84,571	35,826	5,111	25,250	3,163	2,302	48,745	3,330	28,435	2,884	14,096
SOCIAL SECURITY ADMINISTRATION	644	644	634	-	10	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	32,181	31,354	11,826	17,648	1,235	645	827	254	553	20	-
BUREAU OF MINES	1,000	1,000	655	275	70	-	-	-	-	-	-
BUREAU OF OUTDOOR RECREATION	50	50	-	50	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	878	810	290	285	235	-	68	15	33	20	-
GEOLOGICAL SURVEY	25,484	25,484	10,230	13,874	735	645	-	-	-	-	-
NATIONAL PARK SERVICE	270	156	146	10	-	-	114	114	-	-	-
NATIONAL RESOURCES LIBRARY	2,224	2,224	30	2,174	20	-	-	-	-	-	-
OFFICE OF WATER RES AND TECHNOLOGY	1,100	730	-	730	-	-	370	-	370	-	-
US FISH AND WILDLIFE SERVICE	1,175	900	475	250	175	-	275	125	150	-	-
DEPARTMENT OF JUSTICE, TOTAL	3,369	1,129	660	469	-	-	2,240	10	2,230	-	-
BUREAU OF PRISONS	409	409	-	409	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,960	720	660	60	-	-	2,240	10	2,230	-	-
DEPARTMENT OF LABOR, TOTAL	409	356	288	61	7	-	53	12	-	11	30
EMPLOYMENT AND TRAINING ADMIN	382	329	278	51	-	-	53	12	-	11	30
OFFICE OF THE SECRETARY	27	27	10	10	7	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	2,985	2,140	-	2,140	-	-	845	345	500	-	-
DEPARTMENTAL FUNDS	240	240	-	240	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	2,745	1,900	-	1,900	-	-	845	345	500	-	-
DEPT OF TRANSPORTATION, TOTAL	4,200	1,940	75	1,820	45	-	2,260	95	2,165	-	-
FEDERAL AVIATION ADMINISTRATION	190	120	10	100	10	-	70	20	50	-	-
FEDERAL HIGHWAY ADMINISTRATION	430	170	25	125	20	-	260	10	250	-	-
FEDERAL RAILROAD ADMINISTRATION	100	-	-	-	-	-	100	-	100	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,055	35	10	25	-	-	1,020	20	1,000	-	-
OFFICE OF THE SECRETARY	1,775	1,465	15	1,450	-	-	310	10	300	-	-
US COAST GUARD	500	100	-	100	-	-	400	-	400	-	-
URBAN MASS TRANSPORTATION ADMIN	150	50	15	20	15	-	100	35	65	-	-
OTHER AGENCIES											
ADV COMM ON INTERGOVERNMNTL RELATIONS	226	226	176	35	15	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,339	1,217	-	1,187	30	-	122	-	122	-	-
ENERGY RESEARCH & DEVELOPMENT ADMIN	9,265	4,738	2,257	2,481	-	-	4,527	1,614	2,716	197	-
ENVIRONMENTAL PROTECTION AGENCY	4,195	3,583	1,443	1,890	250	-	612	197	380	35	-
FEDERAL COMMUNICATIONS COMMISSION	20	20	6	6	8	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	29	29	-	29	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	38,416	38,416	-	35,022	-	3,394	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	25,693	10,995	5,481	3,404	1,836	274	14,698	9,400	4,973	245	80
NATIONAL SCIENCE FOUNDATION	6,925	456	71	125	85	175	6,469	15	1,506	223	4,725
NUCLEAR REGULATORY COMMISSION	702	642	267	375	-	-	60	-	60	-	-
OFFICE OF TELECOMMUNICATIONS POLICY	105	90	30	60	-	-	15	-	-	15	-
SMITHSONIAN INSTITUTION	6,441	4,464	1,370	2,680	264	150	1,977	-	1,977	-	-
TENNESSEE VALLEY AUTHORITY	187	187	-	187	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	11	11	5	6	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	6,895	6,815	655	3,450	2,400	310	80	30	50	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION.